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SUBJECT ANALYSIS SYSTEMS
COLLECTION

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To learn to classify is in itself an education
Alex. Bain

Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Edition 10, revized and enlarged

By

Melvil Dewey MA LL D

Forest Press
Lake Placid Club N Y
1919

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CONTENTS

	Page
EXPLANATION	6
INTRODUCTION	
Description	7–20
Origin and growth	7
Extent of use	8
What is the system?	8
Decimal form	9
Best known decimal form	9
Relativ Subject Index	10–12
What the Index includes	12
Explanation of tables	12
Choice and arrangement of heads	13
Sequence of allied subjects	13
Co-ordination	13
New subjects	14
Catch titles	14
Form distinctions	14
Minute classification	15
Mnemonics	16–17
Decimalism	17–19
Sizes on shelves	19
Catalogs	20–21
Name catalog	20
Shelf-list	20
Subject catalog	20
Dictionary catalog	21
Advantages	21–24
Shelves	21
Shelf-list	21
Accession book	22
Pamflets	22
Sale duplicates	22
Charging system	22
Subject references	23
Recataloging	23
Adaptability	23
Arabic numerals	23
Endowment of special departments	24
Summary	24

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Suggestions to users 25–31
Plan of tables 25
" Index 25
Numeration 25
Familiarity with classification 25
How to find subject of book 26
Assigning class numbers 26–28
Number of figures used in class numbers 28
Bilding numbers 29
Book numbers 30
Variations practicable 31–37
Cautions 31
Letter notations for changes 32–35
Fiction and juvenils 33
Biografy 33
Travel 34
Parallel libraries 34
Combining language and literature 34
Reference library 34
Contractions for specialists 35
Alfabet or chronology for final subdivisions . . . 35
Broken order 36
Pro and con division of topics 37
Other uses 37–39
Bookstores 38
Scrapbooks 38
Index rerums 38
Topical indexes 39
Acknowledgments 40–41
Note to 7th edition 41
Notes to editions 8–10 46
Index to Introduction 47–48

TABLES AND INDEX

First summary	the 10 main classes	1 page
Second "	the 100 main divisions	1 "
Third "	the 1000 sections	10 pages
Tables of the Subsections of General works		28 "
" " "	Philosofy	11 "
" " "	Religion	20 "
" " "	Sociology	48 "
" " "	Philology	6 "
" " "	Natural science	51 "
" " "	Useful arts	192 "
" " "	Fine arts	18 "
" " "	Literature	44 "
" " "	History	87 "

	Page
Index abbreviations	56–564
Explanation of Index	565–66
Relativ subject index	567–924
Alfabetic table of topics divided geograficly	925–927
" form divisions	928
" languages	928–29
" philologic divisions	930–31
" literatures	932–33
Biscoe and Olin booknumbers	934–36

EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.— The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no farther geografic division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.— When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.— In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.— The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.— On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

o to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.— Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1]For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.—In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-

ience the name as well as the number of the subject ; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him : "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv ; more easily understood, rememberd, and used ; practical rather than theoretical ; brief and familiar in its nomenclature ; best for arranging pamflets, sale duplicates, and notes, and for indexing ; susceptible of partial and gradual adoption without confusion ; more convenient in keeping statistics and checks for books off the shelves ; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books ; uses simpler symbols and fewer of them ; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone ; checks more thuroly and conveniently against mistakes ; admits more readily numerous cross references ; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system ; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 (two seventy, two) as 272, while "two seventy, point two" can never be misunderstood.

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely, even** tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult: —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27^9.

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.— The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,— has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.— A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] For full explanations and table of Biscoe numbers see p. 934–935

Accession order.— A third arrangement — simpler but otherwise less desirable — is in order of accession ; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates ; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation ; e. g. $5\frac{13}{1}$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.— Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made ; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the cooperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the " relativ index system," oftener called the " Dewey system." For its essentials see p. 87–9.

1. **Letter notations for changes.**— To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.— In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz. ; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number ; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject ; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92 ; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging ; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36^7–37^4.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "— 5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
~~.31~~	Alkali group.	
~~.32~~	Potassium.	
~~.33~~	Sodium.	
~~.33~~	Lithium.	
~~.34~~	Rubidium.	
~~.35~~	Caesium.	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, 546.3~~2~~
Rubidium, " " 546.3~~5~~

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog.

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P,7½ x 12½, or to the L,20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.— The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

EDITION 7

The complete revision in progress involvs many new interrelations. As extensiv advance testing of new schemes is impracticable, it is expected that practical application will develop unnotist faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that some have not askt for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others probably belonging in the same category are in the regular type of their grade, if doutful.

Basis of revision After study of all other available systems the *Decimal classification* was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliografy to cover ultimately all subjects in all languages thruout all periods of the world's history.

Determining factors were:

1 The *Decimal classification* was a classification of topics independent of the language or exact synonym by which they were exprest.
2 Its notation was in itself the only international language, since it consisted solely of arabic numerals.
3 Its decimal principle allowd indefinit intercalation.

Overdetaild as the classification alredy seemd to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promist if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliografic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, redily used by the unskild public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the *Decimal classification*, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reacht, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

Changed numbers Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be maild to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

021.1
.6–7
339
371.46 *vacant*
.6–63
67–68
.91–97
372.1 *vacant*
.8
374.2–4
.7–9
375.01–04
378.1
.99
541.1 *vacant*
.3
543.8–9
620.1
621.34 *vacant*
.62–63
.88
.91
.94
.99 *vacant*
642
643
647

Separates There is growing use by specialists who wish very detaild tables of their subjects, but only so much else as will show the perspectiv of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be publisht separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e. g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

Bibliografic modifications The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, tho 10 years use by the Institute with unskild clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliografic cards. Elaborate details and explanations are in the *Classification décimale*, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

1 **Accretion sign** + This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numberd treats of all the subject numbers connected by +; e. g. 637+614.32 a work concerning dairies and inspection of dairy products.

2 **Coupling sign** - This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

3 **Relation sign** : This is the most useful symbol of all, as it involvs no change of number except omission of final 0 by those preferring the shortest form. It indicates merely that the subjects so connected are considerd in relation to each other, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

4 **Form sign** (0) Form or generalities are exprest by a parenthetic number beginning with 0. This is farther subdivided as follows:
(0:) Form symbol: e. g. 335 (0:843) means Socialism treated in the form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyfend figure; e. g. 9(44)(001-3) means *Catalog* of *official* sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc.

(01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long establisht simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign ∞ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea exprest by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9 (00) History of all countries; 9(∞)" ∞" Universal history covering all periods (see 8 below).

6 Place sign (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves D C 930-999 vacant, and writes History of France 9 (44) insted of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curvs.

7 Language sign = This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 Time sign " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 General points of view sign 00 Each of the following numbers for point of view has also a series of subdivisions:

001 Speculativ: idea, purpose, plan, etc.
002 Realization: execution, construction, etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bildings and establishments: details of organization and servis
007 Special personnel

10 A to Z alfabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notis of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geografy in English.

Index The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism *see* Skepticism, Refuse *see* Wastes.

Acknowledgments Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the *Decimal classification* owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; Prof. A E Kennelly of Harvard; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerar library and his staff; Dr Herbert Haviland Field of the Concilium Bibliographicum; Sidney L Wood and Godfrey Dewey in engineering; New York State library, specially to Walter S Biscoe, whose criticism is most valued of all; Professors L P Breckenridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Vöge now of Mechanics Mercantile library, San Francisco, for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the *A L A catalog* of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will

benefit by the cumulativ experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deservs the gratitude of all who profit by this invaluable laborsavor.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions alredy well advanced will be included in edition 9, on which activ work will be steadily continued.

MELVIL DEWEY

Lake Placid Club
10 April 1913

EDITION 9

Like edition 7, edition 8 was exhausted so much earlier than expected that edition 9 has become necessary too soon to complete the tables pland for it. It differs from the last chiefly in many new notes, index entries and correction of errors.

MELVIL DEWEY

1 October 1915

EDITION 10

The chief new features of this edition ar the elaborate tho stil incomplete agriculture classification, and the recast of 940 with the Great war on 940.3 and .4. The gain from having bases of 4 insted of 6 figures for this detaild classification seemd clearly to justify the cost of renumbering material alredy in 940. For the scheme as it stands we ar mainly indetted to the A L A advisory DC committee. It wil be farther enlarged to fit the growing body of war literature, but it is stil too early to make satisfactory subdivisions for campains and battles (940.42–.45). There ar also many smaller additions, besides modifications, notes, and over 3000 new Index entries.

Extended tables of 651 Office economy, and 658 Business methods, in pamflet 'proof under revision' wil be sent on request for test and criticism that wil giv us confidence enuf in their working value to incorporate them in the next edition.

MELVIL DEWEY

Lake Placid Club N Y
11 August 1919

INDEX TO INTRODUCTION

Superior figures indicate the part of the page in ninths; 1, 5 and 9 indicating top, middle and foot: 27^3 means half way between top and middle of p. 27.

D C means *Decimal classification.*

C D means *Classification décimale,* the enlarged French translation of D C.

I I B means Institut International de Bibliographie.

Accession book, advantages of D C for 22^2
Accession order, for book numbers 31^1
Accretion sign 43^6
Acknowledgments 40^3–41^2, 45^3–46^2
Adaptability of D C 23^7
Adoption of D C by I I B 41^9
Advantages of D C 21^8–24^9
Alfabet, use of for final subdivisions 36^3–37^1
Alfabetic arrangement, method in C D 45^8
Allied subjects, sequence 13^4
Amherst college, library recatalogd 23^5
Analytic references 27^9
Arabic numerals, advantage of using 23^9–24^1
Arrangement of D C 25^2
Assigning numbers, directions 10^3
Author numbers 30^4

Basis of revision 41^9
Bibliografic modifications 43^3–44^9
Bilding numbers 29^6–30^4
Biography, treatment of 34^3
Biscoe, W S, time number system 30^9; valuable assistance 40^6, 45^6
Book numbers 30^4–31^5
Books, arrangement 6^3; how to find subject of 26^2
Bookstores, use of D C in 38^4
Broken order, advantage of 37^2

Cards arrangement 6^3
Catalogs 20^5–21^8
Catch-titles, use of 14^5
Cautions, in making variations 31^8-32^9
Changes, unauthorized, effect of 31^8; in 7th edition 42^7
Charging system, advantages of D C for 22^8–23^3
Chronology, use of for final subdivisions 36^2–37^1
Class numbers, definition 12^9; how to assign 10^3, 26^9–28^8; how to bild 29^6–30^4; how to read 25^7; in name catalog 20^6; in shelf list 20^7; number of figures used 28^8–29^5
Classes: divisions and sections 6^1; broken order 37^2
Classification, labor of constructing system 9^7; lack of uniformity 11^5; requirements of system 7^6; test of scheme 11^8
Clast catalog, objection obviated 11^4
Close classification 13^6, 27^4; illustrated by history divisions 13^8; in 7th edition 41^7; objection and compromize 29^4; requisit for bibliografers and specialists 42^4; value of 15^5–16^3
Colon, meaning 43^7
Contractions for specialists 35^9–36^2
Coordination, preserved in D C 13^6
Copyright restrictions 33^1
Coupling sign 43^6
Cutter numbers, advantages 30^7

Dash, meaning in C D 43^6
Decimal classification, essential feature 8^7; explanation of meaning 9^5; extent of use 8^4; labor of constructing 40^3; origin and growth 7^3; practical test 7^7; priority of its invention 8^8; product of experts 12^1; simplicity 9^3; variations 31^5–38^2
Decimal form of the system 9^2
Decimalism, use of 17^9–19^2
Dictionary catalog, inferiority 21^2
Differences between D C and C D 42^5
Divisions 6^2
Duplicates, *see* Sale duplicates

Editions 8^5
Editorship of revized D C 45^7–46^2
Endowment of special departments 24^2
Equality sign, meaning 44^4

Fiction, treatment of 33^6
Form distinctions, position 14^9; use of 14^3, 14^9–15^3
Form divisions, uniform numbers 15^3
Form sign 43^9

Heds 9^7; choice and arrangement 13^2
Hyfen, meaning in C D 43^6
Improvements, so-called 31^9
Index 6^7, 8^3, 9^4, 10^1–12^3; a dictionary catalog 21^5; consolidated and enlarged 45^1; effect of changes in tables 32^1; essential feature of D C 8^7; fulness 10^2; illustration of use 10^4; labor of constructing 40^3; plan of 25^5; scope 12^4; suggestions for using 25^8–29^6; use of blackface type 11^2
Index rerums, use of Decimal classification for 38^8–39^6
Index tables, appended 17^2
Infinity symbol, meaning 44^3
Institute international de bibliographie, adoption of *Decimal classification* 41^9; extension of D C by 42^3
Juvenil literature, treatment 33^6–34^2
L B scrapbook 38^7
Language and literature, combining 34^9–35^2
Language collections 34^6
Language sign 44^4
Letter notations for changes 33^1
Libraries using D C 8^4
Minor subjects, disposition of 14^2.
Minute classification, *see* Close classification.
Mnemonics, use of 16^3–17^9
Name catalog 20^6
Naught, double, meaning 44^6
New subjects, disposition of 14^3
Notation, simplicity 8^1
Note books, use of D C for 39^5
Note type 41^8
Numbers, changed 42^7
Numeration, method of 25^7
Order, of bibliografic symbols 44^8; of classes, broken 37^2
Pamflets, advantages of D C for 22^3
Parallel libraries, treatment of 34^6
Parenthetic numbers, form 43^9; place 44^4
Place sign 44^4
Plus sign, meaning 43^6
Points of view, general, sign for 44^6
Pro and con division of topics 37^8–38^2
Quotation marks, meaning 44^5
Recataloging, advantages of D C in 23^5
Reference library, treatment of 35^3
Relation sign 43^7
Relativ index, *see* Index
Relativ location 21^8; advantage of 19^3–20^2; need of 19^2
Revision of D C, basis of 41^9
Sale duplicates, advantages of D C for 22^6
Scrapbooks, use of D C for 38^6
Sections 6^3, 25^3; sub-sections 6^5
Separates, proposed, 43^5
Sequence of bibliografic signs 44^8
Sets of books 28^7
Seventh edition, preface 41–46; editorship 45^7–46^2
Shelf list 20^7; advantages of D C for 21^9–22^2
Shelvs, advantages of D C for 21^8
Signs, I I B scheme 43^3–44^9
Size, distinction by 20^2
Small libraries, adaptability to 28^8–29^6
Special collections, treatment 34^6; 35^2
Specialists, use of D C by 35^9
Specialties, influence on assigning class numbers 28^1
Subject catalog, arrangement 20^8; printed 20^9–21^1
Subject index, *see* Index
Subject references 27^6; advantages of D C for 23^3; value of 27^8
Subjects, sequence of 13^4
Suggestions to users of D C 25^1–31^5
Summaries 6^4
System, decimal form 9^2
Tables, index, appended 17^2; of classification, plan of 12^5–13^2, 25^2; suggestions for using 25^1, 25^8–29^6
Time numbers 30^7
Time sign 44^5
Topical indexes, use of D C for 39^7
Travel, treatment of 34^6
Type, significance of small 41^8
Uniformity in classification, how to gain 28^5
Universality sign 44^3
Uses of D C 8^2
Variations practicable in D C classification 31^5–38^2
View, general points of, sign for 44^6
Zero, *see* Naught

FIRST SUMMARY

CLASSES

0 General works

1 Philosofy

2 Religion

3 Sociology

4 Philology

5 Natural science

6 Useful arts

7 Fine arts

8 Literature

9 History

DIVISIONS

000	**General works**	500	**Natural science**
010	Bibliografy	510	Mathematics
020	Library economy	520	Astronomy
030	General cyclopedias	530	Physics
040	General collections	540	Chemistry
050	General periodicals	550	Geology
060	General societies Museums	560	Paleontology
070	Journalism Newspapers	570	Biology
080	Special libraries Polygrafy	580	Botany
090	Book rarities	590	Zoology
100	**Philosofy**	600	**Useful arts**
110	Metaphysics	610	Medicin
120	Special metaphysical topics	620	Engineering
130	Mind and body	630	Agriculture
140	Philosofic systems	640	Domestic economy
150	Mental faculties Psychology	650	Communication Commerce
160	Logic Dialectics	660	Chemic technology
170	Ethics	670	Manufactures
180	Ancient philosofers	680	Mechanic trades
190	Modern philosofers	690	Bilding
200	**Religion**	700	**Fine arts**
210	Natural theology	710	Landscape gardening
220	Bible	720	Architecture
230	Doctrinal Dogmatics Theology	730	Sculpture
240	Devotional Practical	740	Drawing Decoration Design
250	Homiletic Pastoral Parochial	750	Painting
260	Church Institutions Work	760	Engraving
270	Religious history	770	Photografy
280	Christian churches and sects	780	Music
290	Ethnic Nonchristian	790	Amusements
300	**Sociology**	800	**Literature**
310	Statistics	810	American
320	Political science	820	English
330	Political economy	830	German
340	Law	840	French
350	Administration	850	Italian
360	Associations and institutions	860	Spanish
370	Education	870	Latin
380	Commerce Communication	880	Greek
390	Customs Costumes Folklore	890	Minor languages
400	**Philology**	900	**History**
410	Comparativ	910	Geografy and travels
420	English	920	Biografy
430	German	930	Ancient history
440	French	940	Europe
450	Italian	950	Asia
460	Spanish	960	Africa
470	Latin	970	North America
480	Greek	980	South America
490	Minor languages	990	Oceanica and polar regions

Modern

THIRD SUMMARY SECTIONS

General works

Limited to *none* of the 9 classes

000
001
002
003
004
005
006
007
008
009

Left blank for local history or biografy, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 **Bibliografy**
011 General bibliografies
012 Of individuals
013 " special classes of authors
014 " " forms, pseudonyms, etc.
015 " " countries
016 " " subjects
017 Clast catalogs
018 Author "
019 Dictionary catalogs

020 **Library economy**
021 Scope, usefulness and founding
022 Bildings
023 Government and servis
024 Regulations for readers
025 Administration Departments
026 Libraries on special subjects
027 General libraries Reports, etc.
028 **Reading and aids**
029 **Literary methods Laborsavers**

030 **General cyclopedias**
031 American
032 English
033 German
034 French
035 Italian
036 Spanish
037 Slavic
038 Scandinavian
039 Minor languages

040 **General collected essays**
041 American
042 English
043 German
044 French
045 Italian
046 Spanish
047 Slavic
048 Scandinavian
049 Minor languages

050 **General periodicals**
051 American
052 English
053 German
054 French
055 Italian
056 Spanish
057 Slavic
058 Scandinavian
059 Minor languages

060 **General societies**
061 American
062 English
063 German
064 French
065 Italian
066 Spanish
067 Slavic
068 Scandinavian
069 Minor languages

070 **Newspapers Journalism**
071 American
072 English
073 German
074 French
075 Italian
076 Spanish
077 Slavic
078 Scandinavian
079 Minor languages

080 **Special libraries Polygrafy**
081
082
083
084
085
086
087
088
089

Left blank to be used (if preferd to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygrafic, i. e. are bound pamflets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juvenils could be put here, but are better kept in a separate class, markt J

090 **Book rarities**
091 Manuscripts Autografs
092 Block books
093 Early printed Incunabula
094 Rare printing Privately printed
095 Rare binding
096 Rare illustrations or materials
097 Ownership Bookplates
098 Prohibited Lost Imaginary
099 Other rarities Curiosa

Philosofy

100 Philosofy
101 Utility
102 Compends
103 Dictionaries
104 Essays
105 Periodicals
106 Societies
107 Study and teaching
108 Polygrafy Maxims
109 History

110 Metaphysics
111 Ontology
112 Methodology
113 Cosmology
114 Space
115 Time
116 Motion
117 Matter
118 Force
119 Quantity Number

120 Metaphysical topics
121 Knowledge: origin, limits
122 Causation Cause and effect
123 Liberty and necessity
124 Teleology Final causes
125 Infinit and finite
126 Consciousness Personality
127 Unconsciousness Automata
128 The soul
129 Origin of the individual soul

130 Mind and body
131 Mental physiology and hygiene
132 Mental derangements
133 Occultism Witchcraft Magic
134 Mesmerism Clairvoyance
135 Sleep Dreams Somnambulism
136 Mental characteristics
137 Temperaments Personality
138 Physiognomy
139 Phrenology Mental photografs

140 Philosofic systems
141 Idealism Transcendentalism
142 Critical philosofy
143 Intuitionalism
144 Empiricism
145 Sensationalism
146 Materialism Positivism
147 Pantheism Monism
148 Eclecticism
149 Other philosofic systems

150 Mental faculties
151 Intellect
152 Sense perceptions
153 Understanding
154 Memory
155 Imagination
156 Reason Intuitiv faculty
157 Sensibility Emotions
158 Instincts Appetites
159 Will

160 Logic Dialectics
161 Inductiv
162 Deductiv
163 Assent
164 Symbolic Algebraic
165 Sources of error Fallacies
166 Syllogism Enthymeme
167 Hypotheses
168 Argument and persuasion
169 Analogy Correspondence

170 Ethics
171 Theories of ethics
172 State ethics
173 Family ethics
174 Professional and business ethics
175 Ethics of amusements
176 Sexual ethics
177 Social ethics
178 Temperance
179 Other ethical topics

180 Ancient philosofers
181 Oriental
182 Early Greek
183 Sophistic and Socratic
184 Platonic
185 Aristotelian
186 Pyrrhonist New Platonist
187 Epicurean
188 Stoic
189 Early Christian and medieval

190 Modern philosofers
191 American
192 British
193 German
194 French
195 Italian
196 Spanish
197 Slavic
198 Scandinavian
199 Other modern

Religion

200 Religion
- 201 Philosofy Theories
- 202 Compends
- 203 Dictionaries
- 204 Essays
- 205 Periodicals
- 206 Societies
- 207 Education Theologic schools
- 208 Polygrafy
- 209 History of theology

210 Natural theology
- 211 Deism and atheism
- 212 Pantheism Theosofy
- 213 Creation Evolution
- 214 Providence Theodicy Fatalism
- 215 Religion and science
- 216 Evil Depravity
- 217 Prayer
- 218 Future life Immortality
- 219 Analogies Correspondences

220 Bible
- 221 Old Testament
  - 222 Historic books
  - 223 Poetic "
  - 224 Prophetic "
- 225 New Testament
  - 226 Gospels and Acts
  - 227 Epistles
  - 228 Apocalypse
- 229 Apocrypha

230 Doctrinal Dogmatics
- 231 God Unity Trinity
- 232 Christ Christology
- 233 Man The fall Sin
- 234 Salvation Soteriology
- 235 Angels Devils Satan
- 236 Eschatology Deth Judgment
  - 237 Future state
- 238 Creeds Catechisms
- 239 Apologetics Evidences

240 Devotional Practical
- 241 Didactic
- 242 Meditativ
- 243 Hortatory
- 244 Miscellany Fiction
- 245 Hymnology Religious poetry
- 246 Ecclesiology Symbolism
  - 247 Sacred furniture, vessels, etc.
- 248 Personal religion Asceticism
- 249 Family devotions

250 Homiletic Pastoral Parochial
- 251 Homiletics Preaching
- 252 Sermons
- 253 Pastoral visitations Evangelistic
- 254 Cleric support Celibacy
- 255 Brotherhoods Sisterhoods
- 256 Societies for parish work Gilds
- 257 Parochial schools, libraries, etc.
- 258 Parish care of sick, fallen, etc.
- 259 Other ministrations and work

260 Church Institutions Work
- 261 Church
  - 262 Ecclesiastic polity
- 263 Sabbath Lord's day Sunday
- 264 Public worship Ritual
- 265 Sacraments Ordinances
- 266 Missions Home and foren
- 267 Associations Y M C A, etc.
- 268 Sunday schools
- 269 Revivals Retreats

270 Religious history
- 271 Monastic orders Monasteries
- 272 Persecutions
- 273 Heresies
- 274 Europe
- 275 Asia
- 276 Africa
- 277 North America
- 278 South America
- 279 Oceanica

280 Christian churches and sects
- 281 Primitiv and oriental
- 282 Roman catholic
- 283 Anglican and American P E
- 284 Continental protestant
- 285 Presbyterian Congregational
- 286 Baptist Immersionist
- 287 Methodist
- 288 Unitarian
- 289 Minor Christian sects

290 Ethnic and other religions
- 291 Comparativ & general mythology
  - 292 Greek and Roman
  - 293 Teutonic and Northern
- 294 Brahmanism Buddhism
- 295 Parseeism
- 296 Judaism
- 297 Mohammedanism
- 298 Mormonism
- 299 Minor nonchristian religions

Sociology

300 Sociology
- 301 Philosofy Theories
- 302 Compends
- 303 Dictionaries
- 304 Essays
- 305 Periodicals
- 306 Societies
- 307 Education
- 308 Polygrafy
- 309 History of sociology

310 Statistics
- 311 Theory Methods
- 312 Population
- 313 Special topics
- 314 Europe
- 315 Asia
- 316 Africa
- 317 North America
- 318 South America
- 319 Oceanica

320 Political science
- 321 Form of state
- 322 Church and state
- 323 Internal or domestic relations
- 324 Suffrage Citizenship
- 325 Colonies and immigration
- 326 Slavery
- 327 Foren relations
- 328 Legislativ bodies and annals
- 329 Political parties

330 Political economy
- 331 Capital Labor Wages
- 332 Banks Money Credit Interest
- 333 Land Ownership Rights & rent
- 334 Cooperation
- 335 Socialism and communism
- 336 Finance Public funds Taxation
- 337 Protection and free trade
- 338 Production Manufacture Prices
- 339 Consumption Pauperism

340 Law
- 341 International law
- 342 Constitutional law and history
- 343 Criminal law
- 344 Martial law
- 345 U. S. statutes and cases
- 346 British statutes and cases
- 347 Treatises: American and British
- 348 Canon law
- 349 Foren law Roman

350 Administration Army
- 351 Administration of central gov't
- 352 Local government: city, town
- 353 United States and state
- 354 Foren states
- 355 Army Military science
- 356 Infantry
- 357 Cavalry
- 358 Artillery
- 359 Navy Naval science

360 Associations Institutions
- 361 Charitable
- 362 Hospitals Asylums
- 363 Political
- 364 Reformatory
- 365 Prisons Disciplin
- 366 Secret societies
- 367 Social clubs
- 368 Insurance
- 369 Other

370 Education
- 371 Teachers, methods, and disciplin
- 372 Elementary Kindergarten
- 373 Intermediate
- 374 Self education and culture
- 375 Curriculum
- 376 Education of women
- 377 Religious, ethical and secular
- 378 Colleges and universities
- 379 Public schools State education

380 Commerce Communication
- 381 Domestic trade
- 382 Foren trade Consular reports
- 383 Postoffis
- 384 Telegraf Cable Telefone
- 385 Railroad and express
- 386 Canal & highway transportation
- 387 River and ocean transportation
- 388 City transit
- 389 Weights and mesures Metrology

390 Customs Popular life
- 391 Costume and care of person
- 392 Birth, home and sex customs
- 393 Treatment of ded
- 394 Public and social customs
- 395 Etiquet
- 396 Woman's position and treatment
- 397 Gipsies Nomads Outcast races
- 398 Folklore Proverbs, etc.
- 399 Customs of war

Philology

400 **Philology**
401 Philosofy
402 Compends
403 Dictionaries
404 Essays
405 Periodicals
406 Societies
407 Study and teaching
408 Polygrafy
409 History of language
410 **Comparativ**
411 Orthografy Alfabets
412 Etymology
413 Dictionaries
414 Phonology
415 Grammar
416 Prosody
417 Inscriptions
418 Texts
419 **Hieroglyfics**
420 **English**
421 Orthografy
422 Etymology
423 Dictionaries
424 Synonyms
425 Grammar
426 Prosody
427 Dialects
428 School texts
429 **Anglo-Saxon**
430 **German**
431 Orthografy
432 Etymology
433 Dictionaries
434 Synonyms
435 Grammar
436 Prosody
437 Dialects
438 School texts
439 **Minor Teutonic**
440 **French**
441 Orthografy
442 Etymology
443 Dictionaries
444 Synonyms
445 Grammar
446 Prosody
447 Dialects
448 School texts
449 **Provençal**
450 **Italian**
451 Orthografy
452 Etymology
453 Dictionaries
454 Synonyms
455 Grammar
456 Prosody
457 Dialects
458 School texts
459 **Rumansh and Wallachian**
460 **Spanish**
461 Orthografy
462 Etymology
463 Dictionaries
464 Synonyms
465 Grammar
466 Prosody
467 Dialects
468 School texts
469 **Portuguese**
470 **Latin**
471 Orthografy
472 Etymology
473 Dictionaries
474 Synonyms
475 Grammar
476 Prosody
477 Dialects
478 School texts
479 **Minor Italic**
480 **Greek**
481 Orthografy
482 Etymology
483 Dictionaries
484 Synonyms
485 Grammar
486 Prosody
487 Dialects
488 School texts
489 **Minor Hellenic**
490 **Minor languages**
491 Minor Indo-European
492 Semitic
493 Hamitic
494 Scythian Turanian
495 Eastern Asiatic
496 African
497 North American
498 South American
499 Malay-Polynesian and other

Natural science

500 Natural science
501 Philosofy
502 Compends
503 Dictionaries
504 Essays
505 Periodicals
506 Societies
507 Education Museums
508 Polygrafy
509 History

510 Mathematics
511 Arithmetic
512 Algebra
513 Geometry Conic sections
514 Trigonometry
515 Descriptiv geometry
516 Analytic geometry Quaternions
517 Calculus
518
519 Probabilities

520 Astronomy
521 Theoretic
522 Practical and spheric
523 Descriptiv
524 Maps and observations
525 Earth
526 Geodesy
527 Navigation
528 Ephemerides
529 **Chronology**

530 Physics
531 Mechanics
532 Liquids Hydraulics
533 Gases Pneumatics
534 Sound Acoustics
535 Light Optics
536 Heat
537 Electricity
538 Magnetism
539 Molecular physics

540 Chemistry
541 Theoretic
542 Practical and experimental
543 Analysis
544 Qualitativ
545 Quantitativ
546 Inorganic
547 Organic
548 **Crystallografy**
549 **Mineralogy**

550 Geology
551 Physical and dynamic geology
552 Lithology Petrografy
553 Economic geology
554 Europe
555 Asia
556 Africa
557 North America
558 South America
559 Oceanica Polar regions

560 Paleontology
561 Plants
562 Invertebrates
563 Protozoa Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes Batrachia
568 Reptils Birds
569 Mammals

570 Biology Ethnology
571 **Prehistoric archeology**
572 **Ethnology Anthropology**
573 **Natural history of man**
574 Homologies
575 Evolution Species
576 Origin and beginnings of life
577 Properties of living matter
578 Microscopy
579 Collectors manuals

580 Botany
581 Physiologic and structural
582 Phanerogamia
583 Dicotyledonae
584 Monocotyledonae
585 Gymnospermae
586 Cryptogamia
587 Pteridophyta
588 Bryophyta
589 Thallophyta

590 Zoology
591 Physiologic zoology
592 Invertebrates
593 Protozoa Radiates
594 Mollusks
595 Articulates
596 Vertebrates
597 Fishes Batrachia
598 Reptils Birds
599 Mammals

Useful arts

600 Useful arts
601 Philosofy
602 Compends
603 Dictionaries
604 Essays
605 Periodicals
606 Societies Fairs Exhibitions
607 Education, schools of technology
608 Patents Inventions
609 History of useful arts

610 Medicin
611 Anatomy
612 Physiology
613 Hygiene Gymnastics Training
614 Public helth
615 Materia medica Therapeutics
616 Pathology Diseases Treatment
617 Surgery Dentistry
618 Diseases of women and children
619 Comparativ medicin Veterinary

620 Engineering
621 Mechanical
622 Mining
623 Military Naval
624 Bridge and roof
625 Road and railroad
626 Canal
627 River and harbor
628 Sanitary Waterworks
629 Other branches

630 Agriculture
631 Farm, farmsted Soil
632 Pests Hindrances Blights Insects
633 Grains Grasses Fibers Tea, etc.
634 Fruits Orchards Vineyards
635 Kitchen garden
636 Domestic animals
637 Dairy: milk, butter, cheese
638 Bees Silkworms
639 **Fishing Trapping**

640 Domestic economy
641 Food Cookery
642 Serving Entertaining
643 Shelter; house, home
644 Heat, light, ventilation
645 Furnishing Decoration
646 Clothing Toilet
647 Household administration
648 Sanitary precautions
649 Nursery Sickroom

650 Communication Commerce
651 Offis equipment and methods
652 Writing: materials, typewriters
653 Abbreviations Shorthand
654 Telegraf Cables Signals
655 Printing Publishing Copyright
656 Transportation Railroading, etc.
657 Bookkeeping Accounts
658 Business manuals Methods Tables
659 Advertising and other topics

660 Chemic technology
661 Chemicals
662 Pyrotechnics Explosivs
663 Beverages: wines,liquors,ales,etc.
664 Foods: sugar, starch, etc.
665 Lights: gas, oil, candles, etc.
666 Ceramics: glass,clay,cement,etc.
667 Bleaching Dyeing Inks Paints
668 Other organic chemic industries
669 **Metallurgy Assaying**

670 Manufactures
671 Articles made of metals
672 Of iron & steel; stoves, cutlery
673 Of brass and bronze; bells, etc.
674 Lumber & articles made of wood
675 Lether " " lether
676 Paper " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber & articles made of rubber
679 Celluloid and other

680 Mechanic trades
681 Watch and instrument making
682 Blacksmithing Horseshoeing
683 Lock and gun making
684 Carriage and cabinet making
685 Saddlery & shoemaking Trunks
686 Bookbinding
687 Clothesmaking Hats
688
689 Other trades

690 Bilding
691 Materials Processes Preservativs
692 Plans and specifications
693 Masonry Plastering, etc.
694 Carpentry Stairbilding
695 Roofing Slating and tiling
696 Plumbing Gas and steam fitting
697 Heating and ventilation
698 Painting Glazing Paperhanging
699 **Carbilding**

Fine arts

700 Fine arts
701 Philosofy Esthetics
702 Compends
703 Dictionaries
704 Essays
705 Periodicals
706 Societies
707 Education Study
708 Art galleries
709 History of art

710 Landscape gardening
711 Public parks
712 Private grounds Lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
716 Plants Flowers Conservatories
717 Arbors Seats Outlooks
718 Monuments Mausoleums
719 **Cemeteries**

720 Architecture
721 Architectural construction
722 Ancient and oriental
723 Medieval Gothic
724 Modern
725 Public bildings
726 Ecclesiastic and religious
727 Educational and scientific
728 Residences
729 Design and decoration

730 Sculpture
731 Materials and methods
732 Ancient
733 Greek and Roman
734 Medieval
735 Modern
736 Carving Seals Dies Gems
737 **Numismatics Coins Medals**
738 **Pottery Porcelain**
739 **Bronzes Bricabrac**

740 Drawing Decoration
741 Freehand Crayon
742 Perspectiv
743 Art anatomy Life school
744 Mathematic drawing
745 Ornamental design: carpet, etc.
746 Art needlework
747 Interior decoration
748 Staind and iridescent glass
749 Artistic furniture

750 Painting
751 Materials and methods
752 Color
753 Epic Mythic Idealistic
754 Genre Still life
755 Religious Ecclesiastic
756 Historical Battles, etc.
757 Portrait
758 Landscape Marine
759 Various schools

760 Engraving
761 Wood
762 Copper Steel
763 Lithografy
764 Chromolithografy
765 Line Stipple
766 Mezzotint Aquatint
767 Etching Dry point
768 Banknote Machine
769 Collections of engravings

770 Photografy
771 Photografic chemistry
772 Processes: silver, etc.
773 Gelatin and pigment
774 " & printer's ink Albertype
775 Photolithografy, etc.
776 Photozincografy, etc.
777 Photoengraving Photoelectros
778 Special applications
779 Collections of photografs

780 Music
781 Theory
782 Dramatic
783 Sacred
784 Vocal
785 Orchestral
786 Piano and organ
787 Stringd instruments
788 Wind "
789 Percussion and mechanical

790 Amusements
791 Public entertainment
792 Theater Opera
793 Indoor amusements
794 Games of skill Chess
795 Games of chance Cards
796 Outdoor sports
797 Boating and ball
798 Horsemanship Racing
799 Fishing Hunting Shooting

Literature

800 Literature
801 Philosofy
802 Compends
803 Dictionaries
804 Essays
805 Periodicals
806 Societies
807 Study and teaching
808 Rhetoric Treatises
809 History

810 American literature
811 Poetry
812 Drama
813 Fiction
814 Essays
815 Oratory
816 Letters
817 Satire Humor
818 Miscellany
819

820 English literature
821 Poetry
822 Drama
823 Fiction
824 Essays
825 Oratory
826 Letters
827 Satire Humor
828 Miscellany
829 **Anglo-Saxon literature**

830 German literature
831 Poetry
832 Drama
833 Fiction
834 Essays
835 Oratory
836 Letters
837 Satire Humor
838 Miscellany
839 **Minor Teutonic literatures**

840 French literature
841 Poetry
842 Drama
843 Fiction
844 Essays
845 Oratory
846 Letters
847 Satire Humor
848 Miscellany
849 **Provençal literature**

850 Italian literature
851 Poetry
852 Drama
853 Fiction
854 Essays
855 Oratory
856 Letters
857 Satire Humor
858 Miscellany
859 **Rumansh and Wallachian**

860 Spanish literature
861 Poetry
862 Drama
863 Fiction
864 Essays
865 Oratory
866 Letters
867 Satire Humor
868 Miscellany
869 **Portuguese literature**

870 Latin literature
871 Poetry
872 Dramatic
873 Epic
874 Lyric
875 Oratory
876 Letters
877 Satire Humor
878 Miscellany
879 **Minor Italic literatures**

880 Greek literature
881 Poetry
882 Dramatic
883 Epic
884 Lyric
885 Oratory
886 Letters
887 Satire Humor
888 Miscellany
889 **Minor Hellenic literatures**

890 Minor literatures
891 Minor Indo-European
892 Semitic
893 Hamitic
894 Scythian Turanian
895 Eastern Asiatic
896 African
897 North American
898 South American
899 Malay-Polynesian and other

History

900 History
901 Philosofy
902 Compends Chronologies
903 Dictionaries
904 Essays
905 Periodicals
906 Societies
907 Study and teaching
908 Polygrafy
909 Universal histories

910 Geografy and travels
911 Historical
912 Maps
913 Antiquities
914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceanica Polar regions

920 Biografy
921 Of philosofy
922 " theology
923 " sociology
924 " philology
925 " science
926 " useful arts
927 " fine arts
928 " literature
929 Genealogy Heraldry

930 Ancient history
931 China
932 Egypt
933 Judea
934 India
935 Medo-Persia
936 Kelts
937 Rome Italy
938 Greece
939 Minor countries

940 Europe
941 Scotland Ireland
942 England Wales
943 Germany Austria
944 France
945 Italy
946 Spain Portugal
947 Russia
948 Norway Sweden Denmark
949 Minor countries

950 Asia
951 China
952 Japan
953 Arabia
954 India
955 Persia
956 Turkey in Asia
957 Siberia
958 Afghanistan Turkistan Balu-[chistan
959 Farther India

960 Africa
961 North Africa
962 Egypt Nubia
963 Abyssinia
964 Morocco
965 Algeria
966 North Central Africa
967 South Central Africa
968 South Africa
969 Madagascar Mauritius

970 North America
971 British America
972 Mexico Central America
973 United States
974 North Atlantic states
975 South Atlantic states
976 South Central or Gulf states
977 Northeast Central or Lake "
978 Western or Mountain "
979 Pacific states

980 South America
981 Brazil
982 Argentina Patagonia
983 Chile
984 Bolivia
985 Peru
986 Colombia Ecuador
987 Venezuela
988 Guiana
989 Paraguay Uruguay

990 Oceanica Polar regions
991 Malaysia
992 Sunda
993 Australasia
994 Australia
995 New Guinea
996 Polynesia
997 Isolated ilands
998 Arctic regions
999 Antarctic regions

Complete tables

including all the

SUBSECTIONS

General works

010 Bibliografy

.1 Theory, utility, etc. .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Education, training, see also 020.7; .8 Polygrafy .9 History

011 General bibliografies Universal catalogs

011 is by **Authors.** If by **Subjects** they go in 016

Properly a catalog is of a special collection and so tells where the works may be found. A bibliografy disregards actual location and tells what there is, but its contents can seldom be found in any one library

012–016 include both bibliografies and catalogs. 017–019 is limited to catalogs of general collections

012 Of individuals

Alfabeted by subjects of bibliografies (bibliografees), not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

A bibliografy of an individual may include either works about or by the individual, or both

Authors on whom special collections are being made (e. g. in 800) attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e. g. artists or musicians, bibliografy of Wagner 016.782

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, tho 013.396 would be the better number in a general library

.0206 Writings of members of A L A

.064 " " " " French academy

.282 " " Roman catholics

.378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationalty, not subject, is the important idea

.91 Authors from special country

Divided like 930–999 by country of origin and farther subdivided with 0 like 930–999 by country of adoption; e.g. 013.91485 bibliografy of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930–999 Foren authors in special country

Usually preferable to .91. Divided like 930–999 by country of adoption and farther subdivided with 0 like 930–999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonyms, pseudonyms, etc.

.1 American .2 English .3 German, etc.

015 Of special countries

Books publisht in the country. Publishers lists, current publications. Subdivided by countries like 940–999; e. g. 015.42, Bibliografy of books publisht in England, as Lowndes or English catalog

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliografy, and goes usually in 015, tho the literary history of some special class is 013

016 Of special subjects

Subdivided like the main classification, from 000–999; e. g. 016.01 Bibliografy of bibliografies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

See also next note

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heding wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject

Under 017-019, 4 means catalogs of books for sale, not publisht, by booksellers. For *publishers* catalogs see 015

017 Clast catalogs: systematic or logical

.1 Public .2 Private .3 Auction .4 Booksellers

Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book

For all forms of alfabetic subject catalogs, see 019. See 016 for Bibliografies

018 Author catalogs See 011 for Bibliografies

.1 Public .2 Private .3 Auction .4 Booksellers

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections

019 Dictionary catalogs Alfabeticoclast, etc.

.1 Public .2 Private .3 Auction .4 Booksellers

020 Library economy

SUMMARY

020-025 Science and administration of libraries in general
- 021 Scope, founding, supporting
- 022 Bildings and grounds
- 023 Government and servis
- 024 Regulations
- 025 Administration

026-027 Special libraries and collections; history, description and management
- 026 Libraries on special subjects
- 027 General libraries

028-029 Allied subjects
- 028 Reading and aids
- 029 Literary methods

REFERENCES TO OTHER MATERIAL
- 010 Bibliografy
- 090 Book rarities

020.1 Theory

.14 Library terms, definitions, etc. Discussion. For dictionaries, glossaries, etc. see 020.3

.2 Compends .3 Dictionaries .4 Essays .5 Periodicals

020.6 **Societies, associations, clubs, conferences**
.61 Official institutions; government departments
For library commissions see 021.82
.62 Societies not under government control
.621 International associations
.622 National "
.623 State "
.624 Local clubs
.625 Associations of special groups
State librarians, or class in 027.506
Medical " " " " 026.6106
Sunday school " " " 027.8
Library dep't of N E A or class with subject in 021.3
.626 Mutual benefit associations
Or class in 023.59, if preferd
.627 A L A publishing board
For library leags see 021.3
.63 Congresses, conferences, meetings, temporary organizations
.65 Commercial establishments Library Bureau
For commercial circulars see 020.85
.7 **Education Training Library schools**
.71 Instruction, schools
Standards. location, cost, etc
.711 Library schools
Use letter for each school, and if desired divide like 378 A–Z
.712 Summer schools
.713 Apprentis classes Training classes
.714 Correspondence schools
.715 Library institutes
Similar to teachers institutes; local meetings with a conductor, for discussion of practical problems
.716 Courses in colleges and universities
.717 Courses in normal and high schools
.718
.719 Private schools and instruction
.72 Research work
.73
.74 Museums, exhibits
Collections of illustrativ appliances, blanks, etc
.75
.76
.77 Special pedagogic methods
.78
.79 Competitions, prizes, traveling scholarships
.8 **Polygrafy**
.81 Individual polygrafy
.82 Collectiv "
.822 Extracts, maxims, anthologies
.83 Recipes
.84
.85 Commercial circulars
See also 020.65 Commercial establishments
.86
.87
.88 Curiosa, anecdotes, library humor, dummy book titles
.9 **History of library economy**
For history of libraries both public and private see 027
Lives of librarians are clast in 920.2. To keep them with the subject use 020.92, and for fotografs of librarians 020.921. Collected lives may be separated from individual by use of the Olin booknumbers (following Index)

021 Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

.01 Arguments for libraries: purpose, benefits

Impressivness of libraries. Discussion of free public libraries is better clast here than in 027.4

.02 Arguments against libraries: evils of libraries

For paternalism in library see 021.201

.03 Progress and future of libraries

Reforms, improvements, projects, plans, profesies, library ideals

.04 Ideals for special communities

e.g. what a library can do for a manufacturing community

.1 Library as a storehouse

.16 Character of material appropriate to library

.2 Library as an educator; people's university

Material on private reading is better in 028 than in 021.2

While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, ar best clast with libraries for special classes in 027.6, or when a special subject predominates, in 026

.201 Paternalism in library

See also 024.58 Library censorship of news, 024.64 Restriction of immoral books, 025.217 Exclusion of immoral or il made books

.25 Library as a publisher

.26 " bookseller

.28 Work for special classes of users

Physicians, lawyers, clergymen, women, foreners, etc. See also 021.3

.3 Library in relation to schools and the young

This is mainly for relations of general public libraries to school work. Class a library ownd by and kept at the school in 027.8. School libraries, 371.6, is only to keep all school material together under 370. Class general work for children with children's libraries in 027.6

.31 Relations to teachers

.32 " pupils

Librarian's talks to pupils, either at schoolhouses or at library, on use of library

.33 Special libraries for schools

Specially selected from general library and lent to school either for class or general school use. Duplicates for schools

.34

.37 Work of individual libraries with schools

Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout

021.4 Home education

This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1–.9

.41 Study clubs Reading circles, etc.

.42 Conferences, conventions, institutes, etc.

.43 Lectures

For extension courses, see 021.44

.44 Extension courses Lecture study

.45 Entertainments: dramatic, musical, etc.

.46 Museums and temporary exhibits

.47 Science museums or collections

.48 Art galleries " "

.5 Library as a recreation

Serving refreshments; e. g. tea

.6 Library extension and cooperation

For work done by the state see 021.8

.61 Deliveries

See also 025.6 and 022.16

.62 Branches

See also 022.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries

Cooperation in any special department is clast with the department; e.g. interlibrary lending 025.6

.65 Traveling libraries

A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon

.66 House libraries

A small traveling library for use of a person or household. Originated at New York state library for isolated students

67 Home libraries

Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 Founding Developing and maintaining interest

This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who ar alredy readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence

.72 Circulars

.73 Advertizing

In newspapers, posters, street cars, etc.

.74 Press Publicity

Discussion of use of newspaper colums (editorials, articles, letters, new book lists, etc.) to secure interest

.75 Schools and teachers

.76 Churches and ministers Pulpit

.77 Literary and other organizations and institutions

.78 Lectures Public meetings and addresses

.79 Library propaganda

Societies, local or general, for encouragement and stimulation

021.8 **Libraries and the state** **Library legislation**

.81 State supervision

.82 Library departments or commissions

Special work done by commissions is clast by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4 If important to keep all work of commissions together, class their reports here

.83 Government aid

.831 State grants of money

.832 Local subsidies

.84 Gifts of books

.841 Public documents, etc.

.842 Copyright books

.85 Exchanges

See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority

.851 Local

.852 Foren

Vattemare international exchanges, Smithsonian exchanges

.86 Privileges

.861 Remitted duties Free importation

.862 Free postage Franking privilege

.863 Lower rates or special facilities Cheap library post

.87

.88 State or local hindrances Politics

.89 Library legislation

General; laws for a special subject ar clast with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8

.891 National legislation

.892 State "

.893 Local legislation (county, city or village)

.894-.899 Legislation in special countries or places

Divided like 940-999

.9 Support, raising funds, etc.

For state aid separate from local help see 021.8

.91 Taxes Appropriations Subsidies

.92 Endowment

.93 Gifts of money or books

See also 021.84 Government gifts

.94 Bequests

.95 Subscriptions

.96 Lectures Fairs Entertainments, etc.

For raising money. For educational purposes see 021.43-.45

.97 Membership fees

022 Library bildings

See also 727.8 Architecture. For care of bilding see 025.9

.1 Location, site, etc.

.11 Location with reference to field of work

Accessibility to population servd, to other libraries, educational institutions, etc.

.12 Site

With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New bildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 Material, protection

.21 Material: wood, brick, stone, steel, glass, etc.

Relativ fitness for library bildings. See also 620.11 Strength of materials; 691 Bilding materials

.22

.23

.24 Fireproof construction

.25 Protection against fires

Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection

.26 Library fires, burning of libraries

.27 Insurance

.28

.29 Other dangers

Flood, earthquake, cyclone, war, etc

.3 Design Plans Construction

Alfabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31–.33 only for indexing

.31 By kind of library

Divided like 027. Group plans for public libraries, 022.314, in 3 subsections

022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3

.3142 Libraries from 20,000–100,000, medium

.3143 Libraries over 100,000, large

.32 By subject

Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be redily referd to in 022.3, or in journals or reports clast elsewhere

.33 By country

Divide like 930–999 and use like 022.31–.32 only for reference

.34 Design and decoration

Divided like 729 as follows:

.341 Elevation, style

Only for general discussion; class elevation of a special library under 022.3

.342 Plan

Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341

022.343 Artistic forms
.344 Painted decoration, etc.
.348 Staind glass
.349 Accessories and fixt furniture
Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. ar 022.9
.35 Construction
Divided like 721. Class here only discussions limited to library bildings
.36
.37 Library rooms as part of other bilding
.38
.39 Remodeling old bilding
Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions
.4 Storage and shelving
For furnishing of private libraries see 645.63
.41 Storage
Capacity per square meter of floor, or running meter of cases; allowance for growth
.42 Shelving round sides of room
.421 Wall cases
.422 Alcoves
.423 Galleries
.43 Stacks
.431 Stack rooms
Dimesions, maximum width with natural light only. Number of rooms, one or several. Number of floors
.432 Arrangement of cases
Parallel, radial; light; open access, supervision
.433 Movable cases
.434 Ailes
Position, width
.435 Flooring of stack rooms
Solid, glass, open grating
.438 Maximum floor load
.44 Cases, tiers
.441 Material: wood, metal, glass
.442 Dimensions of case and tier, hight, length
See also 022.452 Dimensions of shelf
.443 Plan of cases
Open or closed ends and backs; 1 or 2 ledges
.444 Fixt or movable shelvs
.445 Quarto and folio shelving
.45 Shelvs
.451 Material
Wood, metal, glass, stone, sheet iron, skeleton steel
.452 Dimensions: length, depth, thickness; standard shelf
.453 Surface finish or covering
Paint, varnish, cloth or lether covering
.454 Shelf supports: pins, brackets

022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
.47 Closed cases Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotografs
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room Central hall
.52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.65
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 For local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Fotografic and dark room
.659 Piano and music room

022.66 Recreation rooms
.661 Conversation room
.662 Chess room
.663 Other games
.664 Billiards
.665 Bowling
.666 Gymnasium
.67
.68 Other rooms Lavatories, etc.
For helth, comfort or convenience
.681 Entrance halls and corridors
.682 Waiting room
.683 Telefone booth or room
.684 Lunch room
.685 Coat room
.686 Toilet room, lavatories, etc.
.687 Garage, bicycle room, etc.
.69 Residence quarters
.691 Librarian
.695 Janitor
.7 Lighting
.71 Natural lighting; windows
For architectural side see 022.358; for staind glass see 022.348
Position of windows; size and number; shape. Provision for opening: sliding, hinged or pivot sash, French casement
.72 Skylights
.73 Prisms
.74
.75 Artificial lights: materials
.751 Lamps, oil, etc.
.752 Gas
.753 Acetylene
.754 Electricity
.76 Fixtures
.762 Portable or semiportable lights
.763 Table lights
.764 Standards
.765 Bracket lamps
.766 Chandeliers
.77 Lighting of stacks by electricity
Fixt or movable lights
.8 Heating and ventilation
General hygiene of library. Divided like 697

022.9 Fixtures, furniture, fittings

.91 General furniture

.911 Chairs

.912 Tables

.913 Desks

.914 Revolving cases

.915 Bases

.916 Vertical files

See also 651 Offis equipment

.918 Counters

.92 Public conveniences

.921 Hatracks

.922 Umbrella stands

.923 Clocks

.924 Bulletin boards

.93 Furniture for exhibiting or using books, pictures, etc.

.931 Exhibition cases, fixt or movable

.932 Wing frames

.933 Easels

.934 Reference book holders

.935 Magazine and newspaper racks, files, etc.

.94 Appliances for getting or carrying books or messages

.941 Ladders, stepladders

.942 Book trucks

.943 Carrying trays

.944 Mechanical carriers

See also 621.867 Conveyers, Telferage

.945 Book lifts

.946 Pneumatic tubes

.947 Speaking tubes

.948 Interdepartment telefones

See also 621.3853 Intercommunicating telefones

.95 Elevators

For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945

.96 Floor coverings

For permanent flooring see 022.356

.961 Linoleum, corticine

.962 Matting

.963 Carpets

.964 Rugs

.965 Door mats: rubber, wire, etc.

.97

.98

.99 Desk fittings, etc.

Divided like 651

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board

Charters. Local ordinances, etc.

.2 Appointment and tenure of offisers under governing board

State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser

.3 Governing board

Trustees, committees, directors, regents, etc.

.31 Method of selection

Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body

.32 Number

.33 Qualifications

.34 Women as trustees

.35 Powers and duties

.36 Financial administration

.37

.38 Time and place of meetings

.4 Executiv Consulting librarian Library expert

For appointment see 023.2. See also 023.5–.9, which apply to executiv as well as to staf

.43 Responsibilities and privileges

.5 Staf

Including all subordinate positions. For method of appointment see 023.2

.51 Qualifications

.52 Personality Character Moral and social equipment

.53 Mental equipment Natural ability

.531 General education

.532 Professional education Training

See also 020.7 Library schools

.535 Reading of librarians

.54 Physical equipment Helth Exercise

.55 Staf meetings Relations to hed

.56 Women as librarians

Including difference in salaries of men and women

.57 Worries and trials

.58 Longevity

.59 Library benefit associations

See also 020.626

023.6 Daily hours Holidays and vacations
.61 Daily hours
.611 Records Record clock
.612 Punctuality Tardiness
.62 Hours for meals Lunch room
See also 022.6 Special rooms
.63 Special work
.631 Evening
.632 Sunday
.633 Holiday
.64 Work by hour Overtime, extra hours
.641 Making up lost time
.642 Payment for overtime
.643 Effect of overstrain on employees
.644 " " on servis
.65 Holidays
.651 Weekly half holiday
.652 Legal holidays
.66 Vacations
.661 Time of year
.662 Length
.663 Continuous or in instalments
.664 Sabbatic year
.67 Absences for sickness or other causes
See also 023.641 Making up lost time
.68 Attendance at meetings
.681 International
.682 National
.683 State
.684 Local
.7 Titles and duties
.701 Specialization Monotony Change of work
.702 Understudies
.71 Executiv Director
Chief or principal librarian, keeper, etc.
.72 Department, division or section heds
Librarians, sublibrarians, chiefs, heds
.73 Reference staf or faculty
Librarians of special subjects
.74 Assistants Catalogers

023.75 Pupil assistants, apprentises, volunteers
Paid mainly by instruction
.76 Clerical servis
.761 Stenografers
.762 Typewriters
.763 Clerks
.77 Mechanic servis
.771 Binders
.772 Electricians
.773 Carpenters
.774 Other mechanics
.78 Pages, messengers, ushers, runners
.79 Janitor servis
.791 Janitor
.792 Watchman
.793 Elevatormen
.794 Attendants, in coat room, etc.
.795 Porters and packers
.796 Cleaners, etc.
.8 Remuneration: salaries, pensions
Divided like 023.7. See 023.56 for difference between salaries of men and women
.9 Rules for staf Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
.91 Conversation
.92 Personal calls or work
.93 Soliciting money, subscriptions, contributions
.94 Respect and care for library property
.95 Uniforms
.96 Curtesy Indifference
See also 174 Business ethics; 177.1 Curtesy (social ethics)

024 Rules for readers

For reference and circulating departments
.1 Readers qualifications
.11 Age
.12 Residence
.13 Relations to community
Membership in society, club or institution; official position; profession, etc.
.14 Responsibility
Reference, guarantor, money deposit
.15 Registration
.16 " for limited period

024.2 Fees Assessments Free use

.21 Membership fees
Mercantil libraries, atheneums

.22 Book fees
Circulating library fees. For fines see 024.6

.23 Fees for readers card, etc.
For petty expenses to gard against wastefulness

.24

.25 Extra library fees; e. g. college library

.26 Public library fee
For subscription departments see 024.7

.27

.28 Free use

.3 Hours of opening

.31 Number of hours

.32 Time of day: morning, afternoon

.33 Evening opening

.34 All night "

.35 Intermission for meals
Closing library during lunch, dinner or supper hours

.36 Hours for reference and circulating departments

.37 Cooperation of local libraries
Agreement on hours so that some library shal always be open

.4 Days of opening or closing

.41 Sunday

.42 Special religious days

.43 Holidays

.44 Vacation, summer

.45 Inventory Examination
Closing for annual examination of library

.46 Special occasions
Closing for recataloging or rearrangement; public calamity, deths

.47 Closing for epidemics

.5 Reference use

.51 Reading room rules

.52 Decorum in library
Unwelcome visitors; library cranks

.53 Ladies in reading room
For women's separate reading room see 022.57

.54 Access to catalogs
For access to librarian see 023.43

.55 Open reference shelvs

.56 Open shelvs in general

.57 Restricted or selected access to shelvs
Restriction as to persons or subjects

.58 Library censorship of news
Obliteration or suppression. in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime, criminal trials. See also 021.201 Paternalism

024.6 Home use Loans

.61 Number of books

.611 Two book system

.612 Summer vacation cards

.62 Time: 7-day books, new periodicals

.63 Delinquencies Fines

For injuries, etc. see 024.8

.64 Renewals

Extension of loans by library

.65 Relending

Lending by borrowers

.66 Reservations

.67 Restricted books

.671 Reference

.672 Rare or costly

.673 Medical

.674 Of immoral tendency Library inferno

See also 021.201 Paternalism

.68 Interlibrary loans

.681 International loans

.7 Special privileges

.71 Extra books Teachers cards

.72 Extra time

.73 Remission of fines Excuses

.74 Favord classes: trustees, faculty, staf

.77 Lending restricted books

.78 Subscription department

Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries

.8 Injuries Abuses

.81 Defacements

Marks; corrections, notes and comments

.82 Mutilation

.83 Removal of plates, maps, etc.

.84 Mutilating newspapers

.85 Losses by readers; payment

.86 Thefts

.87 Restitutions

.88

.89 Prevention of abuse

Methods of preventing injury and inducing better care of books. For library leag see 027.6

.9 Other rules

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, ar closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to giv proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision .2 Acquisition .3–.6 Utilization .7–.9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

.1 Executiv General supervision

.11 Finances

See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts

See also 021.9 Support

.112 Appropriations: local or state

See also 021.8 Libraries and the state

.113 Other money receivd

Fees, assessments, fines, payments for special servises and investigations, etc.

.114 Accounts: receits and expenses, bookkeeping

.115 Salary payments Staf payrolls

See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals

Class with a department supplies peculiar to it, their kind, qualıty, cost, etc; e.g. catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelvs

.12 Printing and publications

Both preparation of material and details of printing, including size, style, type, etc.

.121 Blanks and forms, stationery

If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics

See also 027

.124 Catalogs

See also 017–019. For cataloging see 025.3

.125 Bulletins

Frequency, advertisements, etc. See also 017–019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon, etc.

For machines and processes see 652. Class here discussion of fitness for library applications only

025.15 Correspondence

.151 Stationery

Material, weight, size and headings

.152 Stenografers, dictation machines

.153 Typewriters

.154 Copiers

Roller, press, carbons, portable. See also 025.129

.156 Letter files

See 651 for methods

.17 Treatment of special material

For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3

.171 Manuscripts, archives and rarities

Divided like 090

.172 Pamflets

.173 Serials, documents, etc.

1 **Periodicals, magazines, etc.**

2 **Newspapers**

3 **Annual reports**

4 **Documents; national, state and local**

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material

Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries

Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

025.2 Accession Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects

Division of funds; endowments for special subjects; accession statistics

.212 **Specialization by libraries**

Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026

.213

.214 Who? Selectors of books

Trustees or trustee committee; librarian; staf committee, book board; advisory committee from outside; experts; central body (bibliografic bureau, state commission, etc.)

.215 How? Methods of selection

Recommendations by readers; personal examination; visits to book stores; books sent on approval: printed reviews; first selection for new library. Want lists, books under consideration
For lists of best books, A L A catalog, annual lists, etc. see 016
For principles of selection and choice of editions see 028.2
For selection for special classes see 027.6, 027.8, 028.5

.216 Buying fiction

Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship

Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism

.218 Weeding out, sifting

Separating books no longer of servis to library. For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books

Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts

Net books. For free importation, see 021.861

.223 Buying old books

Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions

For auction catalogs see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts

Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.268 for gifts from library to library

025.23 Ordering and receiving
For gifts, see 025.227; for exchanges, see 025.266
.231 Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers
.232 Examination for duplicates and verification
Misspeld names; changed titles; separates
.233 Reception and opening
Express, mail, etc; frequency of shipments; free delivery
.234 Checking bills
Prices and amounts
.235 Collation
.236 Receit index
.24 Accession book
.241 Importance of record
Accession book vs shelflist, etc.
.242 Printed headings Items Fulness of entries
.243 Accession number: volume, work or invoice
.244 Accession stamp
.249 Withdrawal book
.25 Ownership marks
.251 Private marks
.252 Stamping
Ink, embossing, or perforating stamp, Table and foot power
.253 Book plates Plating
See also 097
.254 Library name on outside of book
Gilding or impressing name of library on back or covers
.255 Card pockets
.26 Duplicate and exchange departments
.261 Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.
.262 Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand
.263 Cataloging
.264 Arrangement
.265 Sale for cash
.266 Exchange
General exchange of publications; exchange accounts
.267 Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges
.268 Gifts to other libraries
.269 Deposits
By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218
.29 Special material
Divided like 025.17

025.3 **Catalog**

For printed catalogs themselvs, see 017–019. This is for *cataloging*

Printed, manuscript, or card; Author, subject, title, clast; Dictionary or combined; Cooperativ rules; Size notation; Cooperativ cataloging; Duplicated titles, print or photografy; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels

4 **Classification**

For philosofic classification of knowledge, see 112 Methodology. This is for practical classing of books, pamflets, and notes, rather than theoretic speculation

On shelvs; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects

.5 **Reference Reference books Aids to readers**

See 028 for general discussion of reading and aids. This is limited to library administration

.6 **Loan**

See 024.1 and 024.6 for regulations

Indicators; Charging systems, legers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notises, reservs; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair**

See also 686 Bookbinding

Materials, durability, tight vs spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 **Shelf**

See also 022.9, Shelving

Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ locations; Sizes of shelvs; Arrangement and preservation of public documents, pamflets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Chaind books; Injuries, heat, gas, insects; Stock taking; Shelf lists

.9 **Bilding: care, cleaning, safety Janitor Police**

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in preceding sections. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the *catalog* of a chess library is 016.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930–999; e. g. 027.744 College libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 Private and family

.2 Proprietary, society, club and Atheneum

.2 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 Subscription Circulating

Mudie's, Booklovers, etc.

.4 Free public Rate supported Endowd

Public library commissions. See also 331.85; and 027, last note

.42 Special kinds of public libraries

General discussion of county or rural libraries, etc.

.5 State and government

.6 For special classes

Institution, prison, reformatory, asylum, blind, monastic, workmen's, factory, railroad, sailors, lighthouse. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

.7 College, university

For libraries of professional and technical schools see 026

.8 School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 Library in relation to schools and the young

.9 Free newsrooms and reading rooms

See also 331.85

028 Reading and aids

See 374.1–.2 Self education by private reading and reading circles

.1 **Methods**

Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 **Choice of editions**

Annotations, indexes, paper, type

.3 **Courses of reading**

Both discussion and lists of books

For sets of books representing prescribed courses for general culture, e. g. *Harvard classics*, see 080

.4 **Fiction Novel reading**

Discussion. Short selected lists may be put here, tho all fiction lists are better together in 016.823 (in German libraries 016.833, French libraries 016.843, etc.)

.5 **Reading of young Juvenils**

Both discussion and lists of books

.6 **Professorships of books and reading**

Lectures. Stimulus and guidance in schools

.7 **Use of reference books**

.8 **Aids to readers**

Guidance, printed or personal. See also 028.6 and 025.5

.9 **Character of reading in libraries**

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best servd by referring to 025 and 028 insted of repeating the heds

.1 **Methods**

Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification

.1 is for what one *learns* how to do by an improved *method*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature

.2 **Appliances Laborsaving tools and devices**

See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for binders, 025.7

.3 **Clippings Scrapbooks or files**

See also Files, 651

.4 **Notebooks, notetaking, abstracting, etc.**

.5 **Indexing Index rerums Printed and patent indexes**

For alfabeting and transliteration see 025.3

.6 **Authorship Writing for press Copy and proof**

See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

030 General cyclopedias

Subdivided by using for 3d figure; 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other; e.g. American cyclopedias, 03 1

040 General collected essays

Subdivided like 030

050 General periodicals Magazines

Subdivided like 030

060 General learned societies Museums

Subdivided like 030

Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e. g. 550.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

070 Journalism General newspapers

See also 029.3 Clippings Clipping bureaus
179.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 Utility Theories Relations to other professions

For government relations see 070.15

.11 Standards Ethics Influence Responsibility

General and higher view, educativ influence; for degradation of the press see 070.16

.12 Endowd newspapers

Independence of popularity

.13 Liberty of the press Censorship

Individual privacy; diplomatic secrets; seditious or anarchic influence
See also political science,323.445 Freedom of the press

.14 War censorship

.15 Subservience to special interests

Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or ' yellow ' journalism

Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals

Those with editors or place of publication unknown

.19 Other general questions

Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides

070.3 Business management

.31 Staff and workmen

.311 Offis staff

Manager, stenografers, bookkeepers, clerks, messengers

.312 Workmen

Compositors, foundrymen, pressmen, mechanics, laborers

.315 Hours, shifts

.318 Newspaper strikes

.32 Newspaper printing

Class here discussion of economy and other advantages of special methods and appliances

For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page

.322 Methods and appliances

2 Composition: linotype, monotype, etc.

3 Stereotyping

4 Presses

.324 Newspaper cuts: wood, zinc line, halftone

.325 Frequency of issue

Daily, semiweekly, weekly, etc.

.327 Time of issue

Morning, evening, successiv editions, extras

.328 Size of editions, number printed

.33 Distribution Circulation Sale

.331 Direct: subscription Mailing

.332 House delivery

.334 Indirect: newsboys, news agencies, etc.

Crying and peddling in streets and news stands

.336 Advertizing methods

Subdivided like 659.1 Advertizing

.337 Specialties

As means of increasing circulation. For special departments see 070.43

Regular: foren or marine news, stocks, sporting, etc.

Occasional: adoption of popular causes, exposure of abuses, etc.

.338 Other means of increasing circulation

Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses

.341 Plant: bilding and equipment, offises

Duplicate plant. Depreciation of machinery

.343 Supplies: paper, stationery, etc.

.344 Salaries and wages

Space rates. Pay of journalists, pecuniary inducements of vocation. Traveling expenses

.345 Postage: pound rates, free carriage

.348 Advertizing

Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336

.349

070.35 Sources of income Receits

Sales, subscriptions, subsidies. For bribes see 070.16

.36 Advertizing department

Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1

.39 Foren offises

Subdivided like 940–999; e.g. *N Y herald* office in Paris 070.3944

.4 Editorial management

.41 General

Editing rules: order of departments and articles; style; newspaper diction

.42 Staff: reporters, correspondents

Organization: hours, duties. For pay see 070.344

.43 Editorial departments

.431 News

1 Sources and channels of news

Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other Utilization and precautions; conflicting news

2 Press bureaus: associated press

Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers

5 Foren

6 Home

7 Local

.432 Leaders, editorials

.433 Local interests

Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317

.44 Special subjects: departments and editors

.443 Financial: stocks, business, shipping, etc.

.445 Household Home Women Children

2 Cookery

4 Clothing Fashions

6 Hygiene Care of children

7 Women's clubs

8 Children's department: games, puzzles, etc.

.446 Recreation Sporting

.447 Art, musical and dramatic

7 Art

8 Musical

9 Dramatic

.448 Literary

1 Poetry

3 Fiction

.449 Other departments

2 Religion; 3 Education; 5 Science; 8 Humor

070.45 Voluntary correspondents Contributors
.47 Special editions
Sunday newspaper. Supplements. For extras see 070.327
.48 Special kinds of journals
.481 Official journals
.482 Religious
.483
.484 For foren population
In language foren to country in which publisht
.485 Propagandist
.486 Professional and technical
.487 Humorous
.488 Literary
.489 Other: amateur, etc.

070.5-.9 Form divisions

.5 Periodicals on journalism
.6 Press clubs Conventions Expositions
.7 Study and teaching of journalism College courses
Schools Personal qualifications for journalism
.9 History of newspapers and journalism
General History of American newspapers 071, of German journalism 073 etc. Class history of a particular journal with that journal

071-079 Newspapers of various countries

The 3d figures 1–9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940–999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where publisht. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries Polygrafy

For sets or ' libraries ' so constituted as not to be redily scatterd by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alfabetic. Collections conditiond by terms of gift on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28^6, section 10, and p. 35^3 under Reference library. If limited to a special subject, treat like Phoenix library, but shelv the collection in a block before or after the regular books on the same subject; e. g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belongd with the rest of the books on that subject.

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs

Class in 096 mss important chiefly for illumination. Photografs of mss, when more valuable for subject matter, go with subject rather than here
For Diplomatics and Paleografy, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books

093 Early printed books Incunabula

Colophons

094 Rare printing

Aldines, Elzevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding

Noted binders, costly ornaments, curious bindings

096 Rare illustrations or materials

Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.

Philosofy

100 Philosofy in general

Works limited to none of the 9 divisions

101 Utility

102 Compends, outlines

103 Dictionaries Cyclopedias

104 Essays, lectures, addresses

105 Periodicals Philosofic magazines

106 Societies: transactions, etc.

107 Study and teaching of philosofy

108 Polygrafy, extracts, maxims, etc.

109 History of philosofy

110 Metaphysics

111 Ontology

Nature of being Substance and form

112 Methodology

Philosofic classification of knowledge Terminology For book classification see 025.4

113 Cosmology

Philosofic theories and discussion; for philosofy of mathematic processes see 510.1

114 Space

115 Time

116 Motion

117 Matter

118 Force

119 Quantity Number

120 Other metaphysical topics

121 Theory of knowledge Origin Limits
Dout, denial, belief

122 Causation Cause and effect

123 Liberty and necessity
See also 233.7 Freedom; 234.9 Predestination; 159 Will

124 Teleology Final causes

125 Infinit and finite

126 Consciousness Personality See also 233.6 Doctrin

127 Unconsciousness Automata

128 The soul See 218 Natural theology; 237 Future state

129 Origin of the individual soul

.1 By special creation See also 213 Creation

.2 By inheritance Traduction
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

.3 Pre-existence

.4 Transmigration Palingenesis

.5 Emanation See also 147 Pantheism; 212 Natural theology

130 Mind and body Anthropology

Psychic research

131 Mental physiology and hygiene
New thought. For influence of mind on body, mind cure, etc. see 615.851; see also 612.8 Physiology of nervous system, 613.8 Hygiene of nervous system

132 Mental derangements
See also 616.8 diseases of nervous system

.1 Insanity See 362.2 Asylums; 920.8 Lives; 616.84 Disease

.2 Idiocy See 362.3 Asylums; 920.8 Lives; 371.922 Education

.3 Hypochondria Melancholy See 616.852 Hysteria

.4 Catalepsy See 616.852 Hysteria

.5 Ecstatics

.6 Kleptomania and other leading to crime

.7 Dipsomania and other leading to vice
See also 178 Temperance; 616.861 Alcoholism

.8 Mnemonic derangements
Not knowing in one state what past in another. See also 154 Memory

133 Occultism Witchcraft Magic

.1 Apparitions Ghosts

.2 Hallucinations

.3 Divination Oracles Second sight Omens Predictions

.4 Witchcraft Sorcery See also 272.8 Persecutions

.5 Astrology See also 520.1 Astrology

.6 Palmistry

.7 Humbugs Quackery

.9 Spiritism Table-tipping, etc. See also 289.9 Sects

134 Mesmerism Animal magnetism Clairvoyance
Psychic phenomena, hypnotism

135 Sleep Dreams Somnambulism

136 Mental characteristics

See also 131 Mental physiology

.1 **As influenced by sex**

See also 376.2 Mental capacity of women

.2 " " " **physical surroundings**

See also 575.3 Evolution; 573.4 Natural history of man

.3 " " " **ancestry (Mental heredity)**

See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2 Origin of soul; 613.92 Hygiene

.4 " " " **race Racial characteristics**

See also 572 Ethnology

.5 " " " **age**

See also 136.7 Childstudy

.6 " " " **physical structure and conditions**

.7 **Childstudy Paidology**

Including adolescence

.702 **Methods**

1 Laboratory

2 Home

.708 **Observations, records Albums**

.71 Body: structure, growth, care

Limited to development period

See also 136.3 Mental heredity 612.65 Growth
371.7 School hygiene 613 Hygiene
612.64 Embryology 613.9 Heredity

.72 Mind

Limited to period of physical development

In a general library better classify in 130 and 150 with only references here

.73 Mental characteristics

Groupt by influence like 136.1–.6

.74 Children's point of view

Divided like the classification: e. g.

.7417 Ethics .7479 Games
.742 Religion .748 Literature

.75 Delineation of children

Psychology of children from authors' and artists' point of view

.757 **In art**

.758 **In literature**

.76 Abnormal children

Study of development. For methods of instruction see 371.9

For institutions see 362, 364

.761 Physically defectiv

1 **Blind**

2 **Def**

3 **Blind-def**

.762 Mentally defectiv

Divided like 132 Mental derangements; e.g. study of idiotic children 136.7622

.763 Morally defectiv Delinquents

.764 Wildings

Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals. *Paidology* 1: 196 (July 1900)

136.765 Exceptionals Precocity
.766 Backward children
.767 Dependents
Homeless children, a public charge, lacking ideas and associations of children in families
.769 Other abnormal classes
.77 Boys The 'gang' The boy problem
.79 Childhood Divided like 930–999
.791 The child among uncivilized and semicivilized peoples

137 Personality
Temperaments, idiosyncrasy

138 Physiognomy
Expression of mentality thru the body

139 Phrenology Mental photografs, etc.

140 Philosofic systems

The heds 140–149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here. From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system

141 Idealism Transcendentalism
e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36

142 Critical philosofy
e. g. Kant, see 193.2

143 Intuitionalism
e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.

144 Empiricism
e. g. Descartes, see 194.1; Bacon, see 192.1

145 Sensationalism
e. g. Locke, see 192.2

146 Materialism Positivism
e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism

147 Pantheism Monism
e. g. Spinoza See 212 Natural theology

148 Eclecticism
e. g. Cousin, see 194.7

149 Other philosofic systems
See 211 Rationalism, skepticism; 214 Fatalism

.1 Nominalism
.2 Realism See 146 Materialism
.3 Mysticism See 273.2 Heresies; 189.5 Medieval philosofy
.4 Associationalism
.5 Optimism Meliorism
.6 Pessimism
e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man
.7 Agnosticism
See 273.8 Agnostic heresy
.8 Nihilism
.9 Other systems

150 Mental faculties Psychology

For related topics, see Mental in Relativ index following Tables

151 Intellect Capacity for knowing

.1 Genius

152 Sense Sense perceptions

See also physiology 612.84–88

Passiv or receptiv faculty

.1 Vision
.2 Hearing
.3 Smell
.4 Taste
.5 Touch
.6 Muscular sense

153 Understanding

See also 612.821 Physiologic psychology

Activ or thinking faculty

.1 Conception The concept or notion
.2 Association
.3 Abstraction
.4 Reflection
.5 Judgment
.6 Reasoning Induction and deduction
See also 160 Logic

154 Memory Reproductiv power

See also 132.8 Mnemonic derangements

.1 Mnemonics

155 Imagination Creativ power

.1 Fancy Imaging power

156 Intuitiv faculty Reason

For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will

160 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductiv

162 Deductiv

163 Assent Faith

See also 234.2 Doctrinal theology

164 Symbolic Algebraic

Logical machines

Logical topics

165 Sources of error Fallacies

166 Syllogism Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy Correspondence

See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.

.1 .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafy .9 History

171 Theories Philosofy of ethics

Theories of the basis of morality

.1 **Authority Will of God Christian**

For rules of Christian conduct see 241

.2 **Intuition Moral sentiment**

See also 143 Intuitionalism; 156 Intuitiv faculty

.3 **Perfection**

.4 **Happiness Hedonism**

.5 **Utilitarianism**

.6 **Conscience Casuistry**

.7 **Evolutionary or educational**

.8 **Altruism**

.9 **Egoism**

172 State ethics

.1 **Individuals and the state Duties of citizens Patriotism**

See also 320 Political science

.2 **Duties of public offisers** Official corruption

.3 **Relations to church**

Duty of state as to support and protection of church
See also 261.7 The church; 322 Church and state; 272 Persecutions

.4 **International ethics Peace and war**

See also 341 International law

173 Family ethics

.1 Marriage and divorce See also 347.6 Family law
.2 Polygamy and monogamy See also 298 Mormonism
.3 Duties of husbands and wives
.4 Infanticide
.5 Duties of parents
.6 Duties of children
.7 Home life
.8 Masters and servants See also 647 Servants; 331 Labor
.9

174 Professional and business ethics

.1 Clergy
.2 Physicians
.3 Lawyers
.4 Merchants Business men Business virtues and vices
.5 Speculation Mammonism Avaris
.6 Gambling Lotteries
See also 175 below
.7 Honor, honesty Dishonesty
Compact, promis; chicanery, trickery
.8 Employers and employd
.9

175 Ethics of amusements For amusements, see 790

.1 Public shows and diversions Rinks, circuses, etc.
.2 Theater Opera Private theatricals
.3 Dancing Balls Round dances
.4 Games of skill: billiards, chess, etc.
.5 Games of chance: cards, dice, etc.
.6 Prize fighting Animal fighting: bull, dog, cock, etc.
.7 Racing: horse, boat, pedestrian, wheel, etc.
.8 Novel reading
.9 Betting Poolselling See 174.6

176 Sexual ethics

.1 Chastity
.2 Celibacy See also 254 Celibacy of clergy
.3 Continence
.4 Solitary vice
.5 Social evil See also 258 Parish care of fallen
.6 Adultery
.7 Immoral art
.8 Immoral literature
.9

177 Social ethics

.1 **Curtesy**
See also 395 Etiquet

.2 **Conversation Gossip**
See also 374.1 Self culture

.3 **Truth Slander Flattery**

.4 **Dress Display Sumptuary legislation**

.5 **Caste Class feeling Welth and rank**
See also 294 Brahmanism, and 323.31 Nobility, welthy class

.6 **Friendship Courtship Coquetry**

.7 **Philanthropy Humanity**

.8 **Solitude vs social obligations**

.9

178 Temperance Stimulants and narcotics

May be divided by form .01–.09; see Index table 2, following Relativ index
See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8 Nervous system

.1 **Use of intoxicating drinks Beer drinking Medicinal use**
See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index

.2 Total abstinence vs temperance

.3 Social drinking Wine at table Treating

.4 **Traffic in intoxicating drinks License High license**
See also 336.27 Taxation

.5 Prohibition
Including legal discussion of prohibition. See also 329.81 Prohibition party

.6 **Inebriates**
Discussion, reformation. For reformatories and inebriate asylums see 362.8

.7 **Tobacco**

.8 **Opium Hashish Chloral Ether and other drugs**

.9 **Gluttony and other intemperance**

179 Other ethical topics

.1 **Morals of the press Newspapers**
See also journalism, 070.11

.2 **Cruelty**
Societies for preventing cruelty to children and also general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children

.3 Cruelty to animals

.4 Vivisection
See also 614.22 Vivisection laws

.5 **Oaths**

.6 **Heroism Bravery Cowardis**

.7 **Life Dueling Suicide**
See also 394.8 Dueling as a custom

.8 **Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices**

.9 **Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues**

180 Ancient philosofers

See also 921.9, Biografy of ancient philosofy

181 Oriental philosofers

.1 Chinese: Confucius, Mencius
.2 Egyptian
.3 Jewish: kabala; Philo, Maimonides
.4 Indian: gymnosophists
.5 Persian Sufism
.6 Chaldaean
.7 Sabeism
.8 Phenician
.9 Syrian

182 Early Greek philosofers

.1 Ionic: Thales, Anaximander, Anaximenes
Materialistic. Things are as they seem
.2 Italic or Pythagorean Half idealistic
.3 Eleatic: Xenophanes, Parmenides, Zeno, Melissus
Idealistic. Existence denied. Thought is the only reality
.4 Heraclitus
.5 Empedocles
.6 Atomistic
.7 Democritus
.8 Anaxagoras
.9 Other early Greek

183 Sophistic and Socratic philosofers

.1 Sophistic: Protagoras, Gorgias, Prodicus, Hippias
.2 Socrates
.3 Socratic
.4 Cynic: Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic: Aristippus, Hegesias, etc.
.6 Megaric: Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian: Phedo, Menedemus, etc.

184 Platonic Older Academy

.1 Plato
Class his works preferably in 888.4, but discussion of his philosofy here
.2 Speusippus
.3 Xenocrates

185 Aristotelian Peripatetic Lyceum

.1 Aristotle
Class his works preferably in 888.5, but discussion of his philosofy here
.2 Theophrastus
.3 Eudemus
.4 Strato

186 Pyrrhonist New Platonist

.1 Pyrrhonism Skepticism Pyrrho, Timon

.2 New Academy: Arcesilaus, Carneades, Plutarch
See 888.8 Plutarch's works

.3 Eclecticism: Cicero See 875.4

.4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus, Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic

.1 Zeno

.2 Cleanthes

.3 Chrysippus

.4 Panaetius

.5 Posidonius

.6 Seneca See 878.5; 872.6

.7 Epictetus

.8 Marcus Aurelius

189 Early Christian and medieval philosofers

.1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manicheism

.2 Patristic: Tertullian, Augustine, Clement, Origen

.3 Arabian: Avicenna, Averroes

.4 Scholastic: Scotus, Aquinas, Anselm, Abelard

.5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme

190 Modern philosofers

See also 921.1 to 921.8 Biografy of philosofy, or lives may be put here with works, with references only under 920 Biografy. Philosofic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American philosofers

These numbers may be left blank for future use or used for the well know names among American philosofic writers given below

.1	Jonathan Edwards	1703–58	
.2	Orestes A Brownson	1803–76	
.3	Ralph Waldo Emerson	1803–82	See 814.36
.4	Laurens P Hickock	1798–1888	
.5	James McCosh	1811–94	
.6	Noah Porter	1811–92	
.7	Francis Bowen	1811–90	
.8	William Torrey Harris	1835–1909	
.9	Other American philosofic writers		

192	British philosofers		
.1	Bacon	1561–1626	See 144 Empiricism
.2	Locke	1632–1704	See 145 Sensationalism
.3	Berkeley	1685–1753	See 141 Idealism
.4	Hume	1711–76	See 824.64 English essays
.5	Reid	1710–96	See 143 Intuitionalism
.6	Dugald Stewart	1753–1828	
.7	John Stuart Mill	1806–73	
.8	Spencer	1820–1903	
.9	Other British philosofic writers		
193	German philosofers		
.1	Leibnitz	1646–1716	
.2	Kant	1724–1804	See 142 Critical philosofy
.3	Fichte	1762–1814	See 141 Idealism
.4	Schelling	1775–1854	
.5	Hegel	1770–1831	
.6	Schleiermacher	1768–1834	
.7	Schopenhauer	1788–1860	See 149.6 Pessimism
.8	Lotze	1817–82	
.9	Other German philosofic writers		
194	French philosofers		
.1	Descartes	1596–1650	See 144 Empiricism
.2	Malebranche	1638–1715	
.3	Condillac	1715–80	
.4	Rousseau	1712–78	
.5	Diderot	1713–84	
.6	Lamennais	1782–1854	
.7	Cousin	1792–1867	See 148 Eclecticism
.8	Comte	1798–1857	See 146 Positivism
.9	Other French philosofic writers		
195	Italian philosofers		
196	Spanish philosofers		
197	Slavic philosofers		
198	Scandinavian philosofers		
199	Other modern philosofers		

The heds of 180–199 are for discussions of the systems of these men and for their philosofic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184–5 because of their classic prominence.

Religion

200 Religion General works

201 Philosofy, theories, methods

202 Compends, outlines, systems

203 Dictionaries, cyclopedias

204 Essays, lectures, disputations, addresses

See also 252 Sermons

205 Periodicals, magazines, reviews

206 Societies: transactions, reports, etc.

General conferences. Societies whose work is largely done by paid offisers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

207 Education: theologic seminaries, training schools Divided like 940–99

208 Polygrafy: collected works, extracts, etc.

Many collections go under a more specific hed; e. g. 240

209 History of religion

General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274–279 for Christian antiquities of special countries

210 Natural theology

Concerns evidence in nature exclusiv of revelation, also Christian or skeptic discussion of specific topics (211–214, 216–218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

211 Deism and atheism

Skepticism. Infidelity. Rationalism, etc.

Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally reveald, e. g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here

See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

212 Pantheism Theosofy See 147 Pantheism; 129.5 Origin of soul

213 Creation See 113 Cosmology Evolution See 575 Science

From religious viewpoint; attempts to harmonize *Genesis* and geology. See also metaphysics, 113 Cosmology; and natural science, 575 Evolution

214 Providence See 231.5 Doctrins Theodicy See 231.8 for Christian view

215 Religion and science See 239.8 Apologetics

Antagonism or reconciliation between science and Bible religion. Arguments of scientists against scientists. Bridgewater treatises. For creation, see 213

216 Evil. Depravity See 149.6 Pessimism; 233.2 Sin

217 Prayer Prayer gage See 264.1 Prayer; 248 Personal religion

Tests of efficacy of prayer

218 Future life Immortality Eternity

See 237 Future state; 128 The soul

219 Analogies Correspondences See also 169 Logic

220 Bible General works

For similar works limited to Old or New Testament, or individual books, see specific hed below

.1 **Canon Inspiration Authorship Profecy**

.2 **Concordances Analyses**

.3 **Dictionaries Cyclopedias**

.4 **Original texts and early versions Codices**

Heds for old and new testaments are given, as they are also used for 221 and 225

.42 Chaldee

.43 Syriac

.44 Hebrew

.45 Samaritan

.46 Other Semitic: Ethiopic, Arabic, etc.

.47 Latin, Itala, Vulgate

.48 Greek, Septuagint Aquila, Symmachus, Theodotion Hexapla

.49 Other early versions: Armenian, Coptic, Gothic, etc.

220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44

.5 **Versions of Bible Polyglots** Divide by languages, like 400

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43

.6 **Hermeneutics Exegesis Symbolism Typology**

.7 **Commentaries on whole Bible, and annotated editions**

For notes, etc. on portions of the Bible, see the most specific hed in 221–229

.8 **Special topics**

Divided like general Classification; e. g. natural science of the Bible in 220.85

.9 **Biblical geografy and history**

.91 Biblical geografy, description, etc.

See 915.69, 913.33 Palestine

.92 Scriptural biografy

See also 922.1; 232.9 Lives of Christ

.93 Antiquities, archeology

See also 296 Jewish religion; 933 History of Jews

.94 Chronology

.95 History

See 933 Jews

221 Old testament: texts, introductions, etc.

Divided like 220; e. g. 221.7. Commentaries on Old Testament

222 Historical books

.1 **Pentateuch**
- .11 Genesis
- .12 Exodus
- .13 Leviticus
- .14 Numbers
- .15 Deuteronomy
- .16 Decalog

.2 **Joshua**
.3 **Judges and Ruth**
.4 **Samuel**
.5 **Kings**
.6 **Chronicles**
.7 **Ezra**
.8 **Nehemiah**
.9 **Esther**

223 Poetic books

.1 **Job**
.2 **Psalms**
- .3 Authorship and chronology
- .4 Special groups
  - Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 32 38, 51, 102, 130, 143; Hebraic five books, Psalms 1–41; 42–72; 73–89; 90–106; 107–150
- .5 Liturgic use by Christians Metrical versions
  - See 264.038 Anglican psalter; 245 Hymnology
- .6 Commentaries on psalms

.7 **Proverbs**
.8 **Ecclesiastes**
.9 **Song of Solomon, or Canticles**

224 Profetic books

.1 **Isaiah**
.2 **Jeremiah**
.3 **Lamentations**
.4 **Ezekiel**
.5 **Daniel**
.6 **Hosea**
.7 **Joel**
.8 **Amos**

224.9 **Other minor prophets**
.91 Obadiah
.92 Jonah
.93 Micah
.94 Nahum
.95 Habakkuk
.96 Zephaniah
.97 Haggai
.98 Zechariah
.99 Malachi

225 New Testament: texts, introductions, etc.

Divided like 220

226 Gospels and Acts

.1 **Harmonies**
.2 **Matthew**
.3 **Mark**
.4 **Luke**
.5 **John**
.6 **Acts of the apostles**
.7 **Miracles**
.8 **Parables**
.9 **Lord's prayer**

227 Epistles

.1 **Romans**
.2 **Corinthians 1**
.3 **Corinthians 2**
.4 **Galatians**
.5 **Ephesians**
.6 **Philippians**
.7 **Colossians**
.8 **Other Pauline epistles**
.81 Thessalonians 1
.82 Thessalonians 2
.83 Timothy 1
.84 Timothy 2
.85 Titus
.86 Philemon
.87 Hebrews

227.9 Catholic epistles
.91 James
.92 Peter 1
.93 Peter 2
.94 John 1
.95 John 2
.96 John 3
.97 Jude

228 Apocalypse

229 Apocrypha
.1 Esdras 1, 2
.2 Tobit, Judith, Esther
.3 Wisdom
.4 Ecclesiasticus
.5 Baruch, Epistle of Jeremy, Song of the three children
.6 Story of Susanna, History of Bel and the dragon, Prayer of Manasses
.7 Maccabees 1, 2, 3, 4
.8 Pseudo gospels
.9 Apostolic epistles and canons Clementines See 281.1

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280–289. See also 252.3 Class here polemics either offensiv or defensiv, when distinctly doctrinal; but class in 280 history of a sect, even if largely controversial and of a limited period. Class controversy about a special doctrin with its subject; e.g. controversy on the atonement 232 3

231 God Unity Trinity
.1 God the Father, Creator
.2 God the Son, Redeemer
Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
.3 God the Holy Ghost, Giver of Life, Sanctifier
.4 Divine attributes: omniscience, omnipresence, omnipotence
.5 Divine providence See also Natural theology 214
.6 Divine love and wisdom
.7 Divine law and miracles
.8 Theodicy
Vindication of God's justis in permitting evil. See also Natural theology, 214
.9

232 Christology

.1 **Incarnation Messiah**
.2 **Logos, the Word of God**
.3 **Atonement**
.4 **Sacrifice**
.5 **Resurrection**
.6 **Second coming** See also 286.7 Second adventists
.7 **Judgment**
.8 **Divine humanity**
Divinity of the man Jesus, pro and con
.9 **Lives of Christ**

233 Man

.1 **The fall**
.2 **Sin**
.3 **Moral and spiritual heredity**
See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
.4 **Accountability**
.5 **Natural and spiritual body**
.6 **Personality** See also Metaphysics, 126
.7 **Freedom** See also 234.9; 123; 159
.8
.9

234 Salvation Soteriology

.1 **Grace**
.2 **Faith**
.3 **Redemption**
.4 **Regeneration**
.5 **Repentance**
.6 **Obedience**
.7 **Justification**
.8 **Sanctification**
.9 **Predestination and freewill** See also 233.7; 123; 159

235 Angels Devils Satan

236 Eschatology Last things

.1 **Deth**
.2
.3 **Millennium**
.4 **Intermediate state Sheol Hades**
.5 Purgatory
.6 Paradise Limbus patrum
.7 Limbo Limbus infantum
.8 **Resurrection**
.9 last **Judgment** See also Christology, 232.7

237 Future state See also Natural theology, 218

.1 **Eternity**
.2 **Immortality**
.3 **Conditional immortality**
.4 **Heven**
.5 **Hell Gehenna**
.6 **Retribution Future punishment**
.7 **Eternal punishment** See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms

Divided more closely if wisht like 280–289; e. g. 238.19 Greek church

.1 **Apostles, Nicene, and Athanasian creeds**
.2 **Creed of Pius 4 (Trent) and later Roman**
.3 **Anglican 39 articles, A. D. 1551** See also 264.037 Liturgy
.4 **Continental protestant Lutheran Calvinist Dort**
.5 **Westminster Saybrook Cong'l Cambridge Savoy**
.6–.9 **Of other sects** Divided like 286–289

239 Apologetics Evidences of Christianity

If preferd, courses of apologetic lectures may be kept together; e. g. 239.01 Bampton; .02 Boyle; .03 Hulsean; .04 Bohlen; .05 Paddock; .08 Miscellaneous. More usefully each book is clast under the most specific hed that will contain it
See also natural theology 211–218 and doctrins 231–237 for discussion of separate topics

.1 **Apostolic age**
.2 Against the Jews
.3 Against the heathen
.4 Against the Neo-Platonists See 273.1 Gnostic heresy
.5 **Against the English and Scotch deists** See 211 Deism
.6 **Against the French encyclopedists**
.7 **Against the rationalists**
See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
.8 **Against the scientists** For nonchristian view, see 215
.9 **Other special denials**

240 Devotional Practical

241 Didactic
Specifying the Christian's duty to do and to avoid For Catechisms see 238

242 Meditativ, contemplativ
Consolatory. See also 248 Personal religion

.1 Thomas à Kempis

243 Hortatory, evangelistic
Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.
But class Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry
Hymns without music. For hymns with music see 783.9
Divided by languages, like 800, and then by churches, like 280, if denomination is clearly markt
See also 223.5 Psalms; 264.038 Psalter

246 Ecclesiology Symbolism Religious art
246–7 cover religious bearings. For art side see 700

.1 Byzantine and Gothic ecclesiology
See 723 Medieval architecture; 726 Religious architecture

.2 Primitiv church and heathen art

.3 Images in churches Iconoclasts

.4 Protestantism and religious art

.5 Emblematic and cryptografic art: catacomb symbols

.6 Liturgic symbolism: altar, colors, lights
See also 264 Public worship

.7 Evangelistic use of music and art, pictorial and plastic: Della Robbias

.8 Eucharistic music: Ambrose, Gregory the Great Later development See also 783 Sacred music; 264.2 Public worship

.9

247 Sacred furniture Vestments Vessels Ornaments, etc.

.1 Font Baptistery Lectern Pulpit

.2 Tabernacle Rood screen Reredos

.3 Sculpture and mortuary design
See 718 Monuments; 726.8 Mortuary bildings; 730 Sculpture

.4 Illumination Mosaics Enamels Staind glass
See also 745 Ornamental design; 748 Staind glass

.5 Fresco and religious painting See also 750 Painting

.6 Pallium Miter Crozier Ring

.7 Vestments and altar cloths

.8 Eucharistic vessels See also 265.3 Sacraments

.9 Ornaments, etc: crucifix, banners, thurible, incense

248 Personal religion Asceticism

See also 273.2 Ascetic heresy

249 Family devotions See 264 Public worship

250 Homiletic Pastoral Parochial

251 Homiletics Preaching See 264.6 Public worship

Divided like 252, for matter *about* special kinds of sermons

252 Sermons

When too varied for any of the subheds .1–.9, may be divided with .0 by churches and sects, like 280; e. g. protestant episcopal sermons 252.03, but a collection of bishop's addresses 252.1. Sermons on specific topics ar more useful, like other pamflets, clast with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, 331.89. Tho the 9 heds below ar for collections and cross references, they may be used for separate sermons if preferd

.1 **Episcopal charges Pastorals**

.2 **Controversial Polemic**

.3 **Doctrinal Dogmatic** See also 230 Dogmatics

.4 **Practical Devotional**

.5 **Academic Educational** See also 378.7 Baccalaureates

.6 **Political Public occasions and duties**

Thanksgiving and Fast day

.7 **Consecration Ordination Installation**

See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders

.8 **Expository**

.9 **Memorial Obituary Biografic Historical**

Memorial of a special church goes with that church in 280. See also 920 Biografy

253 Pastoral visitations, evangelistic

254 Cleric support Celibacy

See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene

255 Brotherhoods Sisterhoods

In the parish. For Monastic orders, see 271

256 Societies for parish work: gilds, sodalities

Local societies. Discussion of desirability of such work. For general societies see 206 and 267

257 Parochial schools Libraries, etc.

See also 377.5 Education; 027.8 Parish libraries

258 Parish care of sick, fallen, etc.

See 265.8 Ministry of sick; 176.5 Social evil

259 Other ministrations and work

260 Church Institutions and work

261 The church

Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

.1
.2
.3 **Church vs barbarism**
.4 **Church and morals**
.5 **Church and intellectual development** See also 377.8 Education
.6 **Church and civilization**
.7 **Church and civil government**
See 172.3 State ethics; 322 Church and state
.8 **National churches vs organic unity**
.9

262 Ecclesiastic polity

.1 **Ministry**
.11 Apostolic succession
.12 Episcopate
.13 Papacy Primacy Papal supremacy; infallibility, 18 July 1870
.14 Priest Presbyter Minister Lay ministry
.15 Deacon Deaconess Evangelist
.16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
.17 Episcopal
.18 Presbyterian
.19 Congregational
.2 **Parish Congregation** See 250 for Parochial work
.3 **See Diocese Cathedral system**
.4 **Council Synod Presbytery Congregation Convention**
Polity only, here. Proceedings go with churches, 281–9
.5 **General or ecumenic council** See also 270.2
.6 Canons Decrees
.7 **Traditions**
.8 **Authority Church and ministerial Private judgment**
.9 **Disciplin Courts Trials** For Canon law see 348

263 Sabbath Lord's day Sunday

.1 **Hebraic sabbath**
.2 **Modern sabbath Seventh day**
.3 **Lord's day Christian Sunday**
.4 **Sunday observance**
.5 Work
.6 Amusement
.7 Opening libraries and museums
See also 024.4 Library rules
.8 Sunday laws
.9

264 Public worship Divine servis Ritual

Prayer books. See also 246, Ecclesiology; 247 Sacred furniture. General works are divided with .o by churches like 280; e. g. Roman catholic prayer book 264.02. Under various churches the servises may be further divided, as e. g.

.03 Anglican and American P. E. ritual
.031 Calendar Festivals and fasts See also 529.6 Chronology
.032 Lectionary and rubrics
.033 Morning prayer Litany
.034 Evening prayer Vespers Compline
.035 Sacraments, ordinances, and servises See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
.038 Psalter and other See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks
.1 **Prayer Extempore Liturgic**
See also 248–249 Private and family prayer
.2 **Music Singing Instrumental Praise meeting**
See also 783 Sacred music; 246.7, 246.8 Ecclesiology
.3 **Scripture readings**
.4 **Antiphonal or responsiv readings**
.5 **Confessions of faith Creeds** See also 238 Creeds
.6 **Sermons Exhortations Instructions**
See also 251 and 252 Preaching and sermons
.7 **Prayer and conference meetings**
.8 **Class and covenant meetings Love feasts**
.9 **Sacramentals** See also 265 Sacraments

265 Sacraments Ordinances

.1 **Baptism**
.2 **Confirmation Church fellowship**
.3 **Eucharist Holy communion Sacrifice**
.4 **Holy orders Ordination** See also 262.16 Ministry; 252.7 Sermons
.5 **Marriage** See also 173 Ethics of the family
.6 **Penance Confession Absolution**
.7 **Extreme unction Viaticum**
.8 **Ministry of sick and ded: faith cure, healing, burial**
.9 **Consecration Dedication** See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren

Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools

Missions in special countries or places covering the work of several sects go under the geograficly divided Religious history 274–279. The mission of a single sect in a special country or place goes with the history of the sect in 282–289

267 Associations

General societies demanding of members activ personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

.1 **Religious societies of both men and women**

.11 U. S. Christian commission

.15 Salvation army

267.2 **Religious societies of men**

For Y. M. C. A. see 267 .3; missionary societies, 266; ministerial education societies 207; Bible societies, 206

.21 17th century or earlier } May be divided by countries like 940–99

.22 18th century

.23 19th century; interdenominational and undenominational

.231 In educational institutions

Divided like 940–99. If preferd, cancel .231 and put all together in .234–9. For work of Y. M. C. A. see 267.361

.232 Nasmith societies

.233 Young men's Christian unions; i. e. not "evangelic," etc.

.234–.239 Others Divided like 940–99

.24 19th century; denominational

.241 In educational institutions

Divided like 282–289. If preferd, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361

.242–.249 Others Divided like 282–289

.3 **Young Men's Christian associations**

Activ membership confined to members of "evangelic" chur hes

To shorten the number, X may be used for 267.3 thruout; i. e. X 19 would mean "Work in small towns"

.31 **Objects, field and extension**

.311 Need and objects

.312 Limits: for and by young men and distinctivly religious

.313 Relation to the church

.314 International work

.315 National work

.316 State work

.317 District work

.318 Work in towns able to support a general secretary

} Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341

.319 Work in small towns

.32 **Bildings** See also library bildings 022

.321 Location Provision for growth

.322 Materials and protection against fire

.323 Plans Number, size and arrangement of rooms

.324 Reception, social rooms and parlors

.325 Library Reading, lecture, and class rooms See 022

.326 Administration and special rooms Boys' rooms

.327 Physical culture rooms

.328 Lighting, heating, and ventilation

.329 Fixtures, furniture, and fittings

267.33 **Organization**
- .331 Incorporation Constitution and bylaws
- .332 Branches and suborganizations Including women's work for young men
- .333 Managers Offisers serving without pay
  - 1 Trustees (in charge of real estate)
  - 2 Directors
  - 3 President
  - 4 Treasurer
  - 5 Recording secretary
  - 6 Executiv or corresponding secretary
- .334 Standing committees
  - 1 Importance; enlistment and composition
  - 2 Principles and methods of organization
  - 3 Names and duties See also Department work, 267.35
- .335 Membership
  - 1 Membership committee
  - 2 Classes of membership
  - 3 Securing and retaining members
  - 4 Development of activ members
  - 5 Associate membership and its relations

    For members' meeting see Social work, 267.3544

.34 **Salaried offisers: duties, qualifications, training**
- .341 General secretary and assistants

  Including international and state secretaries. See also 267.314–.316
  - 1 Offis and work
  - 2 Qualifications
  - 3 Relationship
    - 31 To churches and pastors
    - 32 To offisers, directors, and committees
    - 33 To other employees
    - 34 To the members
    - 35 To the religious work
    - 36 To the business community
    - 37 To fellow secretaries
  - 4 Personal hints
    - 41 Considering a call and beginning work
    - 42 Spiritual and intellectual growth and helth
    - 43 Offis work, system, and economy
    - 44 Personal appearance and conversation
    - 45 Ladies' company
    - 46 "Secretarialism"
- .342 Librarian and assistants

  May be divided like 267.341. See also Library administration, 025 and 267.3532
- .343 Physical director and assistants

  May be divided like 267.341. See also 267.355 and 613.7
- .344 Other salaried offisers
- .345 Training; need and methods, demand and supply
  - .346 Training schools
  - .347 Training by apprentisship
  - .348 Institutes } Methods only; for reports see 267.39
  - .349 Conferences }

267.35 **Local work by departments**
- .351 Business department
  - 1 Finance committee
  - 2 Annual budget
  - 3 Endowments and other sources of income
  - 4 Solicitation, collection and disbursement
  - 5 Financial bookkeeping
  - 6 Debt, taxes, etc.
  - 7 Records and statistics
  - 8 Advertizing, including anniversaries and parlor conferences
  - 9 Printed matter Including bulletin, prospectus, etc.
- .352 Religious department
  - 1 Committees
  - 2 Individual Bible study Methods and helps
  - 3 Bible classes
  - 4 Training classes Personal work
  - 5 Bible readings Song servises
  - 6 Evangelistic meetings
  - 7 Social religious meetings
  - 8 Other meetings in the rooms
  - 9 Work outside the rooms
    In public institutions, sermons to young men, distribution of religious papers, invitations, etc.
- .353 Educational department
  - 1 Committees
  - 2 Library See 267.342 and 025
  - 3 Reading room
  - 4 Classes
  - 5 Lectures and talks
  - 6 Literary societies
- .354 Social department
  - 1 Committees
  - 2 Reception committee
  - 3 Social rooms and fittings See 267.32
  - 4 Receptions Socials Entertainments
  - 5 Music
  - 6 Amusements Including games of skill See also 794
- .355 Physical department
  - 1 Committees
  - 2 Aim and benefit of department
    For Physical director see 267.343; Equipment, methods, etc. 613.7
- .356 Information, relief, etc. department
  - 1 Boarding house bureaus
  - 2 Employment bureau
  - 3 Savings bureau
  - 4 Visitation of sick
  - 5 Destitute young men
- .357 Boys department
  - 1 Committees
  - 2 Religious work
  - 3 Educational work
  - 4 Social work
  - 5 Physical work
  - 6 Information, relief, etc.
- .358
- .359 Janitor's department: bilding; care, cleaning, safety Police

267.36 **Work among special classes**
Y. M. C. A. only; other religious societies of men go in 267.2
.361 College and school
1 History and methods in general
2 International reports Including Northfield meetings
3 International periodicals
For state and sectional reports and periodicals see 267.39
.362 Railroad employees
1 History and methods in general
2 International reports
.363 Commercial travelers
.364 Foren-speaking
Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.
.365 Negroes
.366 American Indians
.367 Soldiers U. S. Christian commission, 267.11
.368 Sailors
.369 Other Policemen, firemen, fishermen, lumbermen, mutes, etc.
.39 **History, reports, periodicals, etc.** For methods see 267.314–.319
.391 International history
.392 International reports, etc.
1 Reports
2 Other pamflets
} Reports, etc. of international college and railroad work go in 267.361–.362
.393 International periodicals International college periodicals, 267.3613
.394–.399 Special countries Divided like 940–999
.4 **Religious societies of women**
.41
.42
.43 19th century; interdenominational and undenominational
.431
.432 Women's Christian associations
Divided like 267.3. To shorten the number, W may be used for 267.432 thruout; e. g. W 1 would mean 'Objects, field and extension'
.433 King's daughters
.44 19th century; denominational Divided like 282–289
.5 **Young Women's Christian associations**
Activ membership confined to members of "evangelic" churches
Divided like 267.3–.399
To shorten the number Y may be used for 267.5; e. g. Y3, Organization, insted of 267.53
.6 **Religious societies of young people** For Sunday schools see 268
.61 Interdenominational and undenominational
.613 **Young people's society of Christian endevor**
1 Reports, etc.
2 Periodicals
.62 Denominational Divided like 282–289
.7 **Religious societies of boys** Not Y. M. C. A. Divided like 267.6
.8 **Religious societies of girls** Not Y. W. C. A. Divided like 267.6

268 Sunday schools

269 Revivals Retreats Parish missions

270 Religious history

Ancient period: to conversion of Germans

See 281.1–281.4, for collected works of early theologic writers, etc. 270 is for religious history of these *periods*

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2

.1 **Apostolic Nativity to Constantine**

.2 **Period of ecumenic councils Centralization A. D. 325-787**

The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

.21	First of Nice	A. D. 325
.22	First of Constantinople	381
.23	First of Ephesus	431
.24	Chalcedon	451
.25	Second of Constantinople	553
.26	Third of Constantinople	680–81
.27	Second of Nice	787

Medieval period: Charlemagne to Luther

270.3 **Charlemagne Papacy vs empire A. D. 787–1054**

Church planted among the Germans. Feudalism. Great schism, east *vs* west, 1054

.4 **Hildebrand Roman supremacy A. D. 1054–1200**

Temporal power. Scholasticism. First 3 crusades

.5 **Later medieval Renaissance A. D. 1200–1517**

Innocent 3. Papal schism. Avignon. Nominalism *vs* realism. Greek church under Moslems. Education. Arts. Inventions. Pre-reformation

Modern period: Reformation to present

.6 **Reformation Counter reformation A. D. 1517–1648**

Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious wars. Jesuit missions in east. See also reformation in England, etc. 274.2

.7 **Peace of Westphalia to French revolution A. D. 1648–1789**

Union of church and state. Deism. Materialism

.8 **Modern Rationalistic A. D. 1789–**

Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

271 Monastic orders Monasteries

Including monasticism and monastic foundations

See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

.1	**Benedictines**	**founded**	**A. D.**	**529**
.12	Cistercians	"	"	1098
.125	Trappists	"	"	1150
.2	**Dominicans**	"	"	**1170**
.3	**Franciscans**	"	"	**1182**
.36	Capuchins	"	"	1525
.4	**Augustinians**	"	"	**1256**
.5	**Jesuits**	"	"	**1540**

271.6 **Passionists, 1720 Redemptorists, 1732**
.7 **Lesser Roman orders**
.71 Carthusians, founded A. D. 1086
.73 Carmelites 12th century
.75 Sulpicians, 1642
.76 Oblates
.77 Lazarists, 1624
.78 Christian Brothers, 18th century De la Salle
.79 Other lesser Roman orders
.8 **Anglican brotherhoods**
.9 **Sisterhoods**
.91 Sisters of Charity Vincent de Paul founded A. D. 1629
.92 Sisters of Mercy Augustinian " " 1831
.93 Ladies of the Sacred Heart Jesuit " " 1800
.94 Sœurs de bon Secours Nurses
.95 Little Sisters of the Poor
.96 Contemplativ Cloisterd nuns
.97 Other Roman sisterhoods
.971 Carmelites
.972 Second of St Dominic
.973 Franciscans
.974 Ursulines A. D. 1537
.975 Of the Visitation " 1610
.976 Of St Joseph " 1650
.977 Of the Presentation " 1777
.98 Anglican sisterhoods
.99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions

See also special sects, 280; and history of special countries, 940–999

.1 **Apostolic church by imperial Rome 1st–4th century**
.2 **Heretics by Inquisition or Holy Offis Since 1470**
.3 **Waldenses and Albigenses 11th–12th century**
By Roman church. See also 283.4, Protestant sects
.4 **Huguenots French protestants**
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
See also 284.5 Protestant sects
.5 **Molinists and Quietists**
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies
.6 **Marian Anglican reformers by Mary A. D. 1553–58**
.7 **Elizabethan Later 16th century**
Persecution of Roman church by Anglicans
.8 **Quakers Baptists Witches Later 17th century**
Persecutions by puritans. See also 133.4 Witchcraft
.9 **Other persecutions**

273 Heresies

For the history of special doctrins see 230–239, Doctrinal theology

.1 **Gnostic First 3 centuries**

Reaction of pantheism and heathen philosofy on Christianity. See also 189 1 Gnostic philosofy; 186.4 Neo-Platonism; 239.4 Apologetics

.2 **Manichæism Parsee dualism 3d century**

Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 289.8 Shakers, Mystics

.3 **Sabellian**

That the Trinity is not of persons, but of successiv manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg

.4 **Arian Denying divinity of Christ 4th century**

.5 **Pelagian 5th century**

Denying original sin and supernatural grace

.6 **Antinomian 16th century**

Denying force of law, under Gospel dispensation

.7 **Molinist and Jansenist Pietists A. D. 1580–1700**

Port Royal. Augustine's doctrin of grace *vs* the Roman doctrin of good works

.8 **Agnostic**

Denying possibility of revelation. Holding that theology and the supernatura lie outside the domain of human knowledge. See also 149.7 Philosofy; 211 Atheism; 239 Apologetics

.9 **Minor heresies**

274–279 General religious history by countries

274–279 is divided geograficly like 940–999

280 Christian churches and sects

281–289.8 may be subdivided where needed like 940–999

281 Primitiv and Oriental churches

See also 270.1–270.3, Early religious history

.1 **Apostolic church, to time of great schism, A. D. 1054**

Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books

.2 Primitiv apostolic, to end of first century

.3 Ante-Nicene, A. D. 100-325 See also 270.1

.4 Post-Nicene, A. D. 325–1054 See also 270.2–3

.5 **Oriental churches**

.6 Armenian

.7 Coptic

.8 Nestorian

.9 **Eastern or Greco-Russian or Holy orthodox church**

The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church

Divided geograficly like 940–999

283 Anglican and American P. E. church

Divided geograficly, when needed, like 940–999; e. g. the Anglican church in Australia is 283.94; in India, 283.54

284 Continental protestant sects Protestantism

.1 **Lutheran Reformd** See also 285.7, Reformd church in America
German reformd church in United States

.2 **Calvinist Zwinglian** See 285, and 286.1

.3 **Hussites Anabaptists Leyden** See 286.1

.4 **Albigenses Waldenses Vaudois** See 272.3

.5 **Huguenots** See 272.4

.6 **Moravian**

.7 **Scandinavian Swedish**

.8 **Old catholic**
Here are classt those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects

.9 **Other**

285 Presbyterian Reformd Congregational

Next 2 subdivisions are sectarian, not geografic

.1 **Presbyterian church in America**
Subdivided geografically; e. g. 285.173 Presbyterian church in United States, 285.175 Southern presbyterian church

.2 **Presbyterian church in Great Britain**

.3 **Cumberland presbyterian**

.4 **United presbyterian**

.5 **Reformd presbyterian**

.6 **Minor presbyterian sects**

.7 **Reformd (Dutch) church in America** e. g. 285.77471, in N. Y. city

.8 Congregational

.9 Puritanism

286 Baptist Immersionist

.1 **Calvinistic or Regular**
Including Arminian or general baptists, reunited with Calvinistic in 1891

.2 **Free wil**

.3 **Seventh day**

.4 **Old school (Primitiv, Antimission or Hardshel)**

.5 **Other baptist sects**
May be clast if preferd with any of the larger sects which they most closely resemble or of which they ar offshoots

.6 **Disciples (Campbellite or Christian)**

.7 **Adventists**

.9 **Other immersionists**

287 Methodist
- .1 Wesleyan methodist
- .2 Calvinistic methodist
- .3 Welsh Calvinistic methodist
- .4 Primitiv methodist
- .5 Primitiv Wesleyan
- .6 Methodist episcopal
- .7 Methodist protestant
- .8 African methodist
- .9 Minor methodist sects

288 Unitarian See also 273.4

289 Other Christian sects
- .1 Universalist
- .2
- .3
- .4 New church or Swedenborgian
- .5 Christian science
- .6 Quaker Friends Hicksites
- .7 Mennonite
- .8 Shaker Mystic For Mystic heresy see 273.2
- .9 Minor Christian sects

290 Ethnic and other religions

Including comparativ religion and general histories of religion where an equal or minor place is given to Christianity

291 Comparativ and general mythology

292 Greek and Roman mythology

293 Teutonic and Northern mythology

294 Brahmanism Buddhism

For other Indic religions, see 299.11. See also 891.2 Sanskrit literature; 177.5 Caste

295 Parseeism Zend Avesta

For other Iranic religions, see 299.15. See also 891.52 Zend literature

296 Judaism For other Semitic religions, see 299.2

297 Mohammedanism

298 Mormonism See also 173.2 Polygamy

299 Minor nonchristian religions

Subdivided ethnicly like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158

Sociology

300 Sociology in general

301–309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e. g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i. e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any class number shows the subject to be general, not specific

301 Philosofy, theories social psychology

See also 901 Philosofy of history; 320.1 Theory of state

302 Compends, outlines

303 Dictionaries, cyclopedias, etc.

304 Essays, lectures, addresses

305 Periodicals, magazines, reviews

306 Societies: transactions, reports

307 Education: teaching, study, etc. See also 370

308 Polygrafy: collected works, extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science Christian sociology

.1 **Social surveys** of one city - Toronto goes in Toronto 317

Divided like 940–999 Better clast by general libraries in 914–919

310 Statistics

311 Theory, methods Science of statistics

Principles of tabulation, grafic charts, etc. Methods of gathering data

312 Population (progress of) Vital statistics: births, deths, mortality, longevity

See also 614.1 Registration and vital statistics vital stat. of pub. Calcd Cat. 1

Statistics are divided geograficly like 930–999; e. g. Population of Maine 312.741

313 Special topics

314-319 General statistics Divided geograficly like 940–999

The statistics of any special matter are put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610, Medicin; i. e. the topic outranks the locality Toronto 317.14

320 Political science

320.9 History pol science

.1 **Theory**
.11 Origin of the state
.12 Nation and territory
.121 Ethnografic
People of same race comprise the nation
.124 Geografic
Unity of territory
.126 Expansion Acquisition of territory
1 **By discovery**
3 " **occupation and possession**
5 " **cession Annexation**
7 " **purchase or exchange**
9 " **conquest or revolution**
.127 Alienation of territory
.128 Frontiers Boundaries
1 **Natural boundaries**
2 Mountains
4 Rivers
6 Lakes
8 Coast
9 **Artificial boundaries**
.15 Nature, entity, concept of the state
.151 Juridic theory
.152 Political theory
.153 Social and evolutionary theories
.154 The state as a moral organism
.157 Soverenty
See also 341 International law
.158 Allegiance Loyalty, etc. Patriotism
See also state ethics 172.1 Duties of citizens
.159 National growth and decay
.18 Symbolism, emblems: arms, flag, seal, etc.
Better clast in 929.8 and 929.9
.2 **Compends, statecraft**
.3 **Dictionaries**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Education**
.8 **Polygrafy**
.9 **History of political science,** divided like 930–999

321 Form of state

.01 **Simple state Soveren state**
.02 **Mixt state**
.021 Federal state Bundestaat Federation
.022 Confederation of states Staatenbund
Union of soveren states Alliance
.023 Suzerain states
.025 Semisoveren, dependent and vassal states
.026 Mediatized state
.027 Protected state
Protectorates, spheres of influence
.028 Vassal states
.03 **Empire, imperialism**
.04 **World state**
.041 Internationalism

321.07 **Ideal state Utopias**
See also 335 Communism and socialism
.09 **Change of form of state**
.092 Revolution
.094 Coups d'état
.1 **Family Patriarchal age**
.2 **Tribes Clans Marks Village communities**
See also 333.2 Community ownership of land
.3 **Feudalism**
.4 **Democracy** Pure; e. g. Athens, town meeting
.5 **Aristocracy** e. g. Italian republic; medieval German cities
.6 **Absolute monarchy**
.7 **Constitutional monarchy**
.8 **Republic** Modern democracy, delegated powers

322 Church and state See also 172.3, State ethics; 261.7, The church result to state.
Political aspects of combination or separation of state and church affairs

323 Internal relations with groups and individuals
.1 **Movement and questions of nationalities, races and languages**
Divided by country like 930–999; e. g. struggle of nationalities in Austria 323.1436
For emigrant nationalities in a country see 325
.2 **Political struggles and troubles**
Revolutions, revolts; riots, uprisings. See also 321.09
.3 **The state and social groups**
Classes, orders, estates
.31 Nobility, aristocracy; welthy class
.32 Middle class, bourgeoisie
.33 Proletariat, laboring classes, pesantry
See also political economy, 331.8 Laboring classes
.34 Serfs Villenage See 326.3 Serfs and serfdom
.4 **The state and the individual**
Natural rights, individual rights, individualism
.41 Equality of individuals, races, etc.
.42 Equality before the law; justis, etc.
.43 Life
.44 Liberty
.441 Freedom of action
.442 " " conscience
.443 " " speech
.444 **Academic freedom** See 378.121 Freedom of teaching
.445 Freedom of the press
See also journalism 070.13; administration 351.751
.446 Freedom of drama
.447 " " art
.45 Family
.46 Property

323.47 Right of assemb y, association
.48 Right of petition
.49 Limitation and suspension of individual rights and guaranties
.491 Martial law
.492 State of siege
.6 Citizenship
.61 Laws Divided by country like 930-999
.62 Naturalization
.63 Alien races and citizenship
.64 Loss and restoration of citizenship
.65 Duties and obligations of citizens
Scholar as citizen
.67 Rights of aliens
.68 Eligibility to offis

324 Suffrage

.1 Qualifications, conditions and bases
.11 Age
For sex see 324.3 Woman suffrage
.13 Property
Household suffrage
.14 Education Competency Capacity
.15 Nationality Race Religion
.16 Residence, domicil
Length of residence
.162 Voting by soldiers
.164 " " students
.17 Exclusion from and suspension of suffrage
.171 Incompetency, incapacity
Insane, idiots See also 324.14
.172 Bankruptcy
.173 Pauperism
.174 Conviction of crime; bribery, selling vote
.177 Government servis
Military servis: soldiers and sailors
Civil servis, police offisers
.178 Other special classes
Students, domestic servants, etc.
.2 Forms of suffrage Systems Voting, etc.
.21 Electoral systems
.211 Universal suffrage
.212 Partial suffrage, limited
.213 Plural vote
.214 Class vote, class system
.215 Compulsory voting
.216 Short ballot
Aiming to reduce number of electiv offises

324.22 Constituencies and representation of interests

.221 Single member constituency
Scrutin d'arrondissement

.222 Multimember constituency
Scrutin de liste, block vote, general ticket

.223 Minority representation
Single vote, limited vote, cumulativ vote, proxy system

.224 Proportional representation
Preferential: alternativ, contingent, transferable vote. Quota: simple, Droop, d'Hondt, substitute or Gove method. Graduated system. List system. For second ballot see 324.248

.227 Economic and social groups

.23 Selection of candidates
Declaration and presentation of candidacy

.231 Nomination of candidate

.233 Party organization Conferences

.235 Caucus primary

.237 Direct "

.239 Platform

.24 Voting procedure

.241 Electoral lists: formation, revision

.242 Registration system
Poll lists and tally sheets

.243 Jurisdiction Examination of credentials
Appeal, petition

.244 Open voting

.245 Secret ballot

.246 Voting place

.247 Absent voting Voting by mail
Traveling salesmen, railway employees, mail clerks, etc.

.248 Second ballot

.249 Indirect voting Electoral college

.25 Ballot

251 Unofficial

.252 Official

.253 Party ballots

.254 Blanket ballots

.255 Party colums

.256 Offis groups Australian ballot

.257

258 Voting machines

.26 Results and announcements
Inspectors of election, meeting, etc.

.261 Count of ballot

.262 Majority elects Absolute majority

.263 Plurality " Relativ majority

.268 Announcement of vote

324.27 Corruption Electoral fraud
.271 Bribery and undue influence: intimidation, selling votes
.272 Fraud in voting: personation, repeating, illegal voting, colonizing
.273 Election contributions and expenditures
Limitations on expenditures; publicity. Restriction on contributions, political assessments
.274
.275 Fraud in counting
Miscount of ballots; certification of false returns
.276
.277 Election contests
28 Suffrage reform
.3 **Woman suffrage**
.4-.9 **Suffrage by country**
Divided like 940-999

325 Colonies and immigration

.1 **Immigrants** See also 323.6 Citizenship
.2 **Emigrants**
Divided by country of origin like 930-999. This brings together material on emigrants of a special country or race; e, g. Chinese emigrants 325.251. Material on emigrants is usually most important in respect to country of origin, so is best clast in 325.2. Most libraries will have little except on immigrants to their own country, hence in United States 325.2 will relate almost wholly to specific nationalities in United States; e. g. 325.26 Negro question,
.3 **Colonization**
Divided by mother country like 930-999; e. g. 325.342 British colonies. This brings together colonies planted by a special country, but does not specify location of colony
.4-.9 **In special countries**
Divided ike 940-999, by country in which planted; e. g. 325.73. Foren population of United States. See note to 325.2 for a given nationality

326 Slavery See also 973.7 Civil war; 371.974 Education of freedmen

.1 **Slave trade**
.2 **Coolies and contract slaves**
.3 **Serfs and serfdom**
.4 **Antislavery documents**
.5 " **periodicals**
.6 " **societies**
.7 **Proslavery**
.8 **Emancipation and freedom**
.9 **History of slavery** Divided geograficly like 930-999
.92 B. Biografy of slaves

327 Foren relations Divided geograficly like 930-999

328 Legislation, lawmaking

Legislativ bodies and annals
.1 **Parliamentary law**

328.2 **Legislation**
.21 Interpretation of law
.22 Uniform laws
Uniformity of law on same subject in different states or countries
.23 Codification
.24 Policy Tendencies
.241 Overlegislation
.243 Special legislation For private and local bills see 328.378
.25 Legislativ powers
.251 Juridic "
.252 Executiv "
.253 Implied "
.256 Restrictions and checks on legislation See also 328.349
.26 Direct legislation
.261 Initiativ
Voters by petition originate legislation
.264 Referendum
.27–.29 Subjects of legislativ action Divided like 351.7–351.9
.3 **Legislatures**

Summary

328.3 Legislatures
.31 Upper house
.32 Lower "
.33 Membership Election
.34 Prerogativs and powers
.35 Sessions
.36 Internal organization and disciplin
.37 Legislativ procedure
.39 Form of legislature

.31 Upper house
.32 Lower "
.33 Membership Election
.331 Conditions of membership, eligibility
Age, residence, property Membership without voting power
.332 **Exofficio members**
1 Cabinet and government offisers
2 Expresidents
3 Other exoffisers
4 Clergy, bishops
.333 Compensation
Annual salaries, per diem payment. Milage, traveling expenses. Special sessions. See also 328.347 Privileges
.334 Representation
1 **of states**
2 **territories**
3 **colonies and dependencies**
4 **classes**
Universities, landowners, Irish and Scotch peers
5 **of election districts Apportionment**
Equalization of representation; unfair apportionment; 'rotten boros' reapportionment
6 **Gerrymandering**
9 **Number of members**

328.335 Methods of appointment Election
1 **Appointment by government or crown**
For life or for a term
2 **Hereditary right**
3
4
5 **Election by direct vote: plurality or majority**
6 **Length of term**
Entire or partial renewal of membership; holdover member
7 **Vacancies, resignations**
Method of filling vacancies; special elections
8 **Contested elections**
.338 Official membership lists, directories
.339 Unofficial lists or directories
.34 Prerogativs and powers Restrictions
.341 Power over revenue and appropriation
.342 " to judge of elections
.343 " over members
Power to investigate or punish members
.344 Power of expulsion
.345 " over government offisers
Power of investigation for impeachment, see 351.96–.99
" to imprison citizens
.346 Treatymaking power
.347 Privileges
Franking privilege, postage and stationery; railroad passes; free distribution of books
.348 Immunities
From arrest
.349 Restriction
Offisholding Instructions by electors
Direct mandate See also 328.26 Direct legislation
.35 Sessions
.351 Method of summoning
Parliamentary writ
.352 Date of session
Fixt or movable
.353 Frequency of sessions
Annual, biennial, quadrennial
.354 Length of session Life of legislature
.355 Recess
.356 Adjournment Prorogation Dissolution
.357 Executiv session: procedure
.358 Special session Extra session

328.36 Internal organization and disciplin
Verification of powers, credentials
.361 Oath of offis
.362 Offisers: appointment, election
1 **Presiding offiser, speaker**
2 **President protem**
3 **Secretaries, clerks**
Bill clerk Enrolling, engrossing clerks
4 **Sergeant at arms**
5 **Pages, messengers, door keepers**
6 **Payment of employees: gratuities, fees, extra pay**
Unnecessary attendants
7 **Committees**
Standing, special, joint
8 **Special commissions**
For investigation, not administrativ commissions
.363 Records
.364 Supplies: daily papers, postage stamps
Telegraf and telefone bills
.365
.366 Disciplin: suspension, investigation
.367 Bribery Illegal practises
Graft bills, blackmail
.368 Lobbying
Including that by heds of depts and institutions
.37 Legislativ procedure
.371 Rules, manuals
See 8 under 328.4–.9 divided by country
.372 Petition, addresses
Parliamentary inquiries, commissions
Recommendations from executiv
.373 Bills
Technic: bill drafting, introduction
Printing, enrolling, engrossing
.374 **Action by legislature before passage**
1 Readings: 1st, 2d
2 Reference to committees
Committee work or procedure: investigation, hearings, conferences
3 3d reading
4 Contest over passage
5 Party caucuses, logrolling
.375 **Final passage**
Rules committee, 'lifting' committee, 'steering' committee
Vote: viva voce, by roll call; by ballot; obligation of voting in person, pairing
Required majority. Veto, see 353.03
Passing over veto. Bills left in hands of executiv: 30 day bills, pocket veto
Bills which become law without executiv action
.376 **Special bills**
Financial, omnibus riders
.377 Joint resolutions
.378 Local and private legislation
.379 Procedure in special cases
1 **Impeachment**

328.39 Form of legislature
.391 One chamber
.392 Two chambers
See also 328.31 Upper chamber; 328.32 Lower chamber
.393 Other forms
.394 Reform
.395 Abolition
.4–.9 Of special countries
Divided by countries like 940–999, and under each, works may be divided:
1 Jurnals 3 Abstracts 5 Rules 9 History of bodies
2 Debates 4 Documents 8 Legislativ manuals

329 Political parties Party conventions

329.01 U. S. presidential campain documents of all parties, arranged by campains
.1 Federal
.2 Anti-Federal
.3 Democratic
.4 Whig
.5 American Knownothing
.6 Republican
.7
.8 Minor parties
.81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money; .83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; .85 Labor see also 331.8 Laboring classes
.9 Parties in other countries Divided geografically like 940–999

330 Economics Political economy

.1	**Theory**	
.11	General conception Nature and character	
	Definition Limits and extent	
.12	Classification Divisions	
.13	Importance Utility	
.14	Language, terminology, symbols, abbreviations	
.15	Scientific systems	
.151	Mercantil system	
.152	Physiocrats	
.153	Laissez faire	
.154	Historic school	
.19	Relations to other classes	
	Divided like the Classification	
.1917	to ethics	
.1932	" politics	
.198	" literature	
.2	**Compends**	
.3	**Dictionaries**	
.4	**Essays**	
.5	**Periodicals**	
.6	**Societies**	
.7	**Study and teaching**	
.8	**Polygrafy**	
.9	**History**	
.90	By periods	
.901	Primitiv	-476 A. D.
.902	Medieval	476-1500 A. D.
.903	Modern	1501-1900 A. D.
.904	20th century	
.92	Biografy	
	Preferably clast in 923.3	
.93-.99	History divided by country like 930-999	

331 Labor and laborers Employers Capital

.01	**Theory**	
.011	Freedom of labor	
.012		
.013	Importance, utility, dignity of labor	
.015	Psychology of labor	
	See 150 Psychology	
.02	**Compends**	
.03	**Dictionaries**	
.04	**Essays, addresses**	
.05	**Periodicals**	
.06	**Societies, bureaus, etc.**	
.061	Government departments, bureaus	
.062		
.07	**Education Exhibitions**	
	See also 371.42, 607, and education in special subjects	
.08	**Collected works**	
.09	**History**	

331.1 **Relations of capital to labor**
Industrial arbitration. Disciplin: deductions, stoppage, fines

.2 **Remuneration for work**
Wages, hire, pay, salary, fees

.21 General

.211 Statistical theory

.212 Wage fund

.213 Relation of wages to production

.214 " " " " cost of living Living wage

.215 Minimum wage

.22 Wage scales: scale contracts, sliding scale

.225 Extra pay
Extra wages, efficiency bonus, subsidies, bounties; progressiv wage. For deductions, stoppage, fines, etc. see 331.1

.23 Bases of wages and methods of payment

.231 By work done
Job, task, piece. For farming out, sweting system, see 331.236

.232 By time: hour, day, week, month, year

.235 Methods of payment
Truck system, store orders, shares, payment in kind

.236 Intervention of middleman
Subcontract, sweting system, commissions

.238 Payment by other then employer: fees, tips, etc.

.24 Profitsharing

.25 Pensions Insurance
Old age, sickness, accident

.26 State and wages

.261 Legislation Laws

.262 Wages for state labor

.27 Professional remuneration

.28 Wages divided by trade

.29 " " " country

.3 **Labor of children** See also 179.2 Cruelty to children

.4 **Labor of women** See also 396.5 Woman

.5 **Work at reduced wages**

.51 Prisons Convict labor
See also 365 Prisons

.52

.53 Convents Ouvroirs (workshops)
Ouvroirs are charity workshops paying beneficiaries nominal wages and marketing products at prices so small as to lower wages of selfsupporting workers

.54 Contract labor

.55 Apprentis labor
See also 331.86 Training, apprentisship

.56 Peonage

.57 Compulsory labor Corvée

.58 Slave labor
See also 326 Slavery

.6 **Pauper labor Cheap foren labor Chinese**
See also 339 Pauperism; 362.5 Asylums

331.7 **Skild and unskild labor**
.8 **Laboring classes**
.81 Duration of work Rest
.811 Length of day
8-hour day, 10-hour day, etc. Shifts of work
.812 Night work
.813 Sunday work
.814 Overtime Supplementary hours
.815
.816 Vacation Leave of absence
.817 Holidays
Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints
.818 In special trades
.819 " " countries
.82 Places of labor Dangers
See also 613.6 Hygiene; 622.8 Mining; 614.8 Protection of life
.83 Food Clothes Shelter See also 640 Domestic economy
.84 Morals and habits: thrift, temperance, amusements, temptations
See also 170 Ethics; 790 Amusements; 263.6 Sunday
.85 Helps: lectures, libraries, reading rooms, etc.
Social settlements See also 374.5 Home education; 020 Libraries; 263.7 Sunday
.86 Training Apprentisship
.87 Organization of labor
.88 Trade unions and other labor societies
See also 338.6 Gilds
.89 Strikes
Combinations of workmen. Retaliation by employers
.891 **Attacks on freedom of work**
Picketing; methods of intimidation; scabs
.892 **Sympathetic strikes**
.893 **Boycotting**
.894 **Blacklisting** **Laying under interdict**
.895 **Lockouts**

332 Private finance
.1 **Banks and banking**
See also 334.2 Cooperativ banks
.11 National Federal reserv
.12 State
.13 Private
.14 Trust companies
.15 Foren
.2 Savings banks
Postal savings banks. See also 383

332.3 Loan institutes and special loans
.31 Credit institutes
.311 **Agricultural banks and credits**
See also 631.16
.312 **Manufacturers credits**
.313 **Loans on chattel mortgages**
.314 " " **salaries**
.315 " " **wages**
.32 Bilding associations See 334.1 Cooperation
.33 Monts de piété Governmental
.34 Pawn shops Private
.4 Money Coins and coinage
.41 Coinage metals: production and value; gold, silver, nickel, copper
.42 Single and double standard
.43 International standards
.44 Monetary congresses
.45 Comparativ value of moneys
.46 Mints
.47 Coinage laws
.48
.49 In special countries Divided geograficly like 940–999
History, reports and laws
.5 Paper money Public and private notes See also 329.82
.6 Stocks and stock exchanges Bonds
.7 Credit Credit system
.8 Interest and usury See also 336.31 Public securities
.9 Counterfiting Forging See 343 Criminal law

333 Land: ownership, rights, and rent

For other relations see Land in Relativ index following Tables
.09 Special countries, divided like 930–999
.1 State ownership
.2 Community ownership
See also 321.2 Village communities
.3 Private ownership
.4 Absentee owners Alien owners
.5 Rent of land for cultivation
Class here general works on rent
.6 Rent of land for bilding
.7 Special classes of land: forests, pasture, waste
.8 Mines
.9 Water rights: litoral, riparian, irrigation

334 Cooperation

.1 **Bilding societies: loans, organization** See also 332.32
.2 **Cooperativ banks** See also 332 Banks
.3 " **insurance societies** See also 368 Insurance
.4 " **housekeeping** See also 647.93 Domestic economy
.5 " **consumptiv associations** **Stores**
.6 " **productiv associations** **Factories**
.7 **Friendly societies**
.8 **Burial societies**

335 Socialism and communism

See also 334 Cooperation
.01 Theory of property

.1 **English socialism**
.2 **Saint Simonism**
.3 **Fourierism**
.4 **Communism**
.5 **German socialism** **Social democracy**
.6 **State socialism** **Socialism of the chair**
Professorial socialism
.7 **Christian socialism**
.8 Bolshevism.
.9 **Socialist communities**
Divided by countries like 930–999

336 Public finance

Federal and state. For local finances see 352.1

.1 **State domain and properties**
.11 Management and income from rents
.12 Sale
.13 Land claims
.14 Land grants to railroads, colleges, etc.
See also 379.123 Education
.19 State monopolies
e. g. French state monopoly of tobacco trade. See also 338.8 Monopolies
.2 **Taxation**
.21 Direct
.22 Real estate
.23 Personal property
.24 Income
.25 Poll
.26 Customs: specific or ad valorem
Regulations. Schedules of duties. See also 337 Protection
.27 Excise, licenses, special taxes
Liquor, dog, legacies, stamp duties
For other relations see License in Relativ index following Tables
.28 Local taxes See also 379.13 School funds
.29 Assessment and collection of taxes Exemptions

336.3 Loans Public securities
.31 Interest-bearing securities See also 332.8 Interest
.32 Floating det
.33 Sinking fund
.34 Public credit
.35 Annuities
.36 Repudiation
.4–.9 Finance of special countries Divided geograficly like 940–999

337 Protection and free trade

See also 336.26 Customs

.1 Absolute free trade No tarif
.2 Free trade: i. e. tarif for revenue only
.3 Protection
Class in 337.2 discussions or histories which are arguments for free trade
When doutful prefer 337.3, the general number for discussions
.4 Subsidies
.5 Duties on special articles: steel, wool, etc.
.6 " " raw materials
.7 " " books and works of art
.8 Duty free importation for colleges, etc.
See also 021.861 Libraries
.9 Reciprocity

338 Production Manufacture Prices

.1 Agricultural products
.2 Mining products See also 332.41 Coinage metals
.3 Water " Fish, ice, etc.
.4 Manufactured products Machinery in industry
.5 Prices
.6 Gilds See also 331.88 Trades unions
.7 Corporate industries
.8 Monopolies Trusts See also 336.19 State monopolies
.9 Industrial legislation Divided geograficly like 940–999

339 Consumption of welth Pauperism

Conservation; restrictions on use or waste of materials and natural resources
See also Pauper, Pauperism, Welth, in Relativ index following Tables

340 Law

General works Most periodicals belong in Private law, 347.05
.1 Philosofy Theories Law of nature
.3 Antiquities: torture, trial by ordeal, duel, etc.
.4 Trial by jury
.5 Comparativ legislation
.6 Medical jurisprudence See also 614.23 Expert testimony
.7 Education Law school Offis training
.8 Polygrafy Collections
.9 Legal anecdotes and miscellany

Public law

341 International law

.01 Philosofy; .02 Compends, etc. like 300

.1 **International congresses**

Of diplomatic agents for settling international relations; Hague tribunal, Leag of Nations. Congresses on special topics go with their subjects; e. g. 332.44 on Coinage

.2 **Treaties: texts and history**

Class with most important country, dividing like 940–999

.3 **Law of war** **Captivs** **Neutrals**

.4 **International criminal law**

.5 **International private law**

.6 **Arbitration**

.7 **Diplomacy**

.8 **Consular systems**

342 Constitutional law and history

Divided by countries like 930–999. Under each, works may be divided: 1 Texts of constitution; 2 Conventions; 3 Systems, commentaries; 4 Essays; 8 Polygrafy; 9 History

For Administrativ law, see 350

343 Criminal law

.1 **Criminal trials**

.2 **Punishments**

Corporal. Deth penalty. Hard labor. Confinement

.3–.9 **Of special countries** Divided by countries like 930–999

Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal procedure; 4 Text books and manuals

344 Martial law

Private law

345 United States statutes and cases

Divide each of the sections .1–.5, using 1 U. S.; 2 Individual states arranged alfabeticly: e. g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12

.1 **Session laws**

.2 **Codes** **Revised statutes**

.3 **Law digests (of statutes)**

.4 **Reports**

Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical collections of various states; e. g. Eastern Reporter, etc; .42 Reports of individual states

.5 **Digests of cases**

346 British statutes and cases

Divided like 345. Includes all reports in English language except U. S. reports

347 Treatises American and English private law

.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies, bar associations .08 Polygrafy .09 History

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law textbooks arranged in one alfabet by authors. An elaborate division, similar to Medicin, will be publisht after farther revision

.1 Persons Legal capacity

.2 Realty

.3 Chattels Movables

.4 Contracts

.5 Torts

.6 Family law and inheritance

.7 Commercial and maritime

.8 Equity

.9 Civil trials Procedure

.91 Civil trials

.92 Pleading

.93 Forms

.94 Evidence Testimony in general not limited to civil trials

.95 Remedies

.96 Justises of the peace Notaries Sheriff

.97 Organization of courts

.98 Jurisdictions

.99 History of special courts

348 Canon law

349 Foren law

Divided like 930–999, and under each modern state divided like 345 with decimals .71 — .79 used for Treatises like 347; e. g. 349.4475 is French law of torts, 349.442 is French code. Roman law is divided:

.37 Roman law

.01 Philosofy .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History

.371 Sources: Ante-Justinian

.372 " Justinian

.373 History and criticism of sources

.374 Institutes: ancient Roman law

.375 Pandects: modern " "

.377 Treatises on special topics

Divided like 347

350 Administration

Including Military science. .1 Theory; .2 Compends; .3 Dictionaries; .4 Essays; .5 Periodicals; .6 Societies; .7 Education; .8 Polygrafy; .9 History

A large number of the questions properly placed under Administration are clast with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

351 Administration of central government

.1 **Organization of civil servis**
Offisers Method of selection: election or appointment Official functions and powers Mutual relations

.2 **Civil lists**

.3 **Examination**

.4 **Tenure of offis** **Disciplin** See 351.92 Power of removal

.5 **Pensions**

.6 **Reform** **Spoils system vs offisholding class**

.7 **Subjects of administrativ action**
See also 353 United States; 354 Foren states

.71 Financial administration
See 336 Public finance, public property, taxation

.72 Budget Public accounts

.73 Internal affairs See also 323 Domestic relations

.74 Police mesures

.75 **Public safety and order** See also 352.2 Police; 365 Prisons, etc.

.751 Press

.752 Reunion and association

.753 Wepons

.76 **Vice and good manners**

.761 Liquor regulation See 178 Temperance

.762 Public gaming See 174.6 Ethics

.763 Public begging See 339 Pauperism

.764 Prostitution See 176.5 Ethics

.77 **Sanitary police**
See 352.4 Boards of helth; 614 Public helth, etc.

.78 **Accidents** See 614.8 Public helth

.781 Bildings See 614.85

.782 Fires See 614.84

351.8 Promotion of public welfare
.81 **Means of communication**
See 380 Commerce, communication
.811 Highways See 386; 352.7 Local government
.812 Railways See 385
.813 Waterways See 386; 387
.814 Ferries
.815 Bridges See 352.7 Local government
.816 Postoffis See 383
.817 Telegrafs See 384
.82 **Trade and industry**
.821 Weights and mesures See 389 Commerce
.822 Coinage and money See 332 Banks, money
.823 Landed industry
Agriculture See 630 Useful arts; 338.1 Production
Forests See 634.9 Agriculture; 333.7 Land
Mines See 622 Mining; 338.2 Production; 333.8 Land
.824 Commercial and manufacturing industry
See 380 Commerce; 338 Production
.825 Institutions of credit See 332 Banks, credit
Savings banks See 332.2
Mutual benefit societies See 334 Cooperation
Insurance See 368; 334.3 Cooperativ insurance
Monts de piété See 332.33
.83 **Labor** See 331 Capital, Labor, Wages
.84 **Public charity**
See 339 Pauperism; 360 Associations and institutions
.85 **Education and worship**
.851 Public education See 379 Education
.852 Public libraries See 027.4 Library economy
.853 Art museums See 708 Art
.857 Worship See 322 Church and state
Military and naval See 355–359 Army and Navy
Justis See 340 Law
Foren affairs See 341 International law; 327 Political science
.9 **Control over the administration**
.91 Administrativ control By superior offisers
.92 Disciplinary power
Power of removal. See also 351.4 Tenure of offis
.93 Supervision
Power to annul or amend specific acts
.94 Judicial control
.941 **Ordinary courts** See 347.5 Law of torts
.945 **Criminal courts** See 343 Criminal law
.95 Administrativ courts
.96 Parliamentary control
.97 Petitions and addresses
.98 Investigations
.99 Impeachment

352 Local government: county, town, city

See also 379 Public schools; 020 Libraries

General questions of municipal administration

.001 Growth and importance of cities
.002 Cities and state control
.003 City as a juristic person, a corporation
See also 347.1 Law of corporations
.004 City organization, municipal elections
.005 Municipal civil servis

Local administration of special countries and cities

.03–.09 divided by countries like 930–999

.042 Local government in England
Arrange matter relating to special cities alfabeticly by name of city and subdivide the remaining works as follows:
1 County
2 Municipal boro
3 Parish
4 Union See 339 Pauperism
5 Sanitary districts See 614 Public helth
6 School districts See 379 Education
7 Highway areas See 352.7

.043 Local government in Germany Special cities like 352.042
1 Province: landtag, provincial committee, director
2
3 Circle Circle diet Circle committee Landrat
4 Commune
5 Towns
6 Township

.044 Local government in France Special cities like 352.042
1 Department
2 General council
3 Departmental commission
4 Prefect
5 Arrondissement
6 Commune
7 Mayor
8 Municipal council

.1 Finances: city property and local taxation
See also 336 Public finance

.2 Police

.3 Fire department See also 621.68 Fire engins; 614.84 Fires

.4 Public helth: board of helth See also 614 Medicin

.5 Public bildings and works

.6 Water and sewerage works See also 628 Sanitary engineering

.7 Streets Highways Bridges Parks
See also these topics in Relativ index for other relations

.8 Licenses: hack, huckster, entertainment, etc.

.9 Other topics

353 United States and state government

Operation of government, except legislativ branch. For U. S. congress and state legislatures see 328.73–.798, where also are department reports in sets of congressional and state documents. Class separates of such reports with their subjects or with their respectiv departments in 353.1–.97988 when they have no definit place elsewhere in the classification; but report of bureau of education 379.73, of agriculture dep't 630.6

See also 342.73 Constitutional law and history

.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet

.1 State department

.2 Tresury department

Laws and rules governing tresury; but class reports 336.73 U. S. Finance

.3 Interior department

.4 Postoffis department

See 383 Postal servis

.5 Judiciary department

.6 War department

See also 355 Army: military science

.7 Navy department

See also 359 Navy: naval science

.8 Other departments

.9 State government Divided like 974-979

Apply same decimals for state and foren governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dep't of D. C. 353.97535 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foren states

See also 342 Constitutional law and history

Divided geograficly by countries like 930–999. Under each country the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Monarch
- 04 Privy council
- 05 Cabinet

.43 Administration of Germany Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 Empire
- 04 Bundesrat
- 05 Emperor
- 06 Ministry
- 07 States Monarchs
- 08 Landtag Ministers Council of state
- 09 Free cities

.44 Administration of France Central government
- 01 Administrativ centralization
- 02 Separation of powers
- 03 President
- 04 Ministers
- 05 Council of state

355 Military science Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and subdivision 4 under special wars in 973; e. g. Mexican war being 973.62, regimental history of that war is 973.624. See also 623 Military engineering
.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodicals
.06 Societies .07 Education .08 Polygrafy .09 History

.1 Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis Resulting status

.12 Military life in peace and war

.13 Military honor Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations
See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

.2 Military resources

.21 Preparedness

Rediness of resources for mobilization

.22 Men Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense
For relations of government to maintenance of public order see 351.74 Government police mesures

.23

.24 Raw material

Agricultural, mineral, etc.

.25

.26 Manufactures, industries

.27 Transportation

Roads, railroads, canals, ships

.3 Organization of military forces

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

.33 Offisers Military hierarchy

.331 Command in general

General principles and rules of command, whether of large or small units

.34 Special servis

Outside the regular arm or grade

.35 Armies General staff

Armies clast according to military obligation and field of servis; e. g. European armies of first line, 2d line, colonial armies
For military units see 355.31

355.4 **Tactics and strategy**
.41 Logistics and field servis
.42 General tactics
See each arm for its peculiar tactics
.43 Strategy
.44 Siege warfare
For siege engineering see 623.2
.45 National defense
.47 Military geografy
Divided like 930–999
Geografic works from military point of view and works on strategic conditions of theaters of operations
.48 Wars, campains, battles, military exploits
Better clast with wars to which they belong in 930–999
.5 **Servis**
Garrison and field servis, mobilization; instruction of troops and subaltern grades; maneuvers
.52 Grand maneuvers Instruction camps
.6 **Military administration**
Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3
.7 **Military establishments**
Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering)
725.12 Architecture of military bildings
.8 **Military equipment and supplies**
.81 Clothing Camp outfit
.82 Small arms and ammunition
Administrativ questions: working and reserv supply; storage, issue, etc.
For mechanism and relativ efficiency of different kinds see 623.4
.83 Wagons Harness Transport outfit
.84 Pioneering tools
.85 Other tools Instruments
356 Infantry
1 **Organization**
Light infantry, mounted infantry, cyclist infantry
.12 Special colonial infantry
.13 Organizations eventually subject to mobilization
.14 Volunteer corps
.15 Irregular troops
'Corps francs' existing only during war
.16 Special infantry troops
Sharpshooters, etc.
.2 **Staff and special servises**
.3 **Administrativ staff and servises**
Personnel and organization

357 Cavalry Mounted servises
.1 Cavalry proper
.2 Remount and training servises
.3 Army train

358 Artillery, engineers and other technical servises
For ordnance, gunnery, etc. see 623 Military engineering
.1 Artillery
.2 Engineers
.3 Other technical servises

359 Naval science
Divided by .01–.09 like 355. See also 623.8 Naval architecture

360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421

361 Charitable
See also 377.7 Charity schools. For humane societies see 179.2

362 Hospitals, asylums, and allied societies
.1 Sick and wounded Incurables Eye and ear infirmaries Lying-in hospitals Dispensaries
.2 Insane
For other relations see Insane, Insanity in Relativ index following Tables
.3 Idiotic
For other relations see Idiocy, Idiots, in Relativ index
.4 Blind Def Dum
See also 371.91 Education
.5 Paupers
For other relations see Pauperism, Paupers, in Relativ index
.6 Aged Invalids Bereft
Mothers pensions Aid in cases of deth
.7 Children Orfans Foundlings
Child welfare See also ethics, 179.2 Cruelty
.8 Other
.9 Special countries
Divided like 930–999; e.g. 362.942 Hospitals of England

363 Political
Tammany, Primrose leag, Ku Klux, etc.

364 Reformatory Criminology
Schools; discharged convicts; criminal classes

365 Prisons Disciplin
See also 331.5 Convict labor

366 Secret societies
.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
See also 371.85 College secret societies

367 Social clubs

368 Insurance

See also 334.3 Cooperativ insurance

.1 **Fire**

.2 **Marine**

.3 **Life**

.31 Annuities

See also 336.35 Public annuities; 519.5 Probabilities

.4 **Accident Liability**

.5 **Animal and crop, agriculture**

.6 **Plate glass**

.7 **Boiler**

.8 **Credit and bonds Land titles**

.91 **Government control Commissioners**

.94–.99 divided geograficly like 940–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 **Hereditary and patriotic societies (American)**

.11 **General associations**

.111 Regular army and navy union

.112 Society of veterans of the regular army and navy

.113 Military and naval order of the United States

.114 Medal of honor legion

.115 Military order of foren wars of the United States

.116 Order of the old gard

Incorporated 31 Jan. 1896; organized 15 Oct. 1896

.117 Naval order of the United States

.118 Society of American wars

.119

.12 **Colonial societies**

.121 Society of colonial wars

.122 Society of colonial dames of America

A New York society with chapters in other states; known also merely as Colonial dames of America

.123 National society of colonial dames of America

A federation of separately incorporated societies in about 40 different states

.124 Society of the Mayflower descendants

.125 Order of the founders and patriots of America

.126 Colonial order of the acorn

.127 " society of Pennsylvania

.128 " daughters of the 17th century

.129

.13 **Revolutionary societies**

.131 Society of the Cincinnati

.132 Society of the daughters of the Cincinnati

.133 Sons of the American revolution

.134 Sons of the revolution

.135 Daughters of the American revolution

.136 Daughters of the revolution

.137 Children of the American revolution

369.14
.141 Society of the war of 1812
.142 United States daughters of 1776–1812
.143 Military society of the war of 1812
.144 Society of the second war with Great Britain in the state of New York
.145 Aztec club of 1847
.146 National association of veterans of the Mexican war
.147
.148
.149
.15 Civil war societies, Union
.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156 Society of the army and navy of the Gulf
.157 National association of naval veterans
.158 Society of the army of the Cumberland
.159
.16
.161 Woman's relief corps
.162 Woman's veteran relief union
.163
.164
.165 Society of the sons of veterans, U. S. army
.166
.167
.168
.169
.17 Civil war associations, Confederate
.171 Confederate survivors association
.172 Confederate veterans association
.173 United sons of confederate veterans
.174 " confederate veterans
.175 Daughters of the confederacy
.18
.181 Spanish war veterans
.182 Society of the army of Santiago de Cuba
.183 Naval and military order of the Spanish American war
.184
.185
.186 Societies arising from Great war of 1914–19

.4 Young peoples societies

For religious societies see 267.6

.41 Mixt: boys and girls
.42 Boys
See also 136.77 The 'gang'
.43 Boy scouts
.46 Girls
.47 Campfire girls

370 Education

Disciplin in broad sense

.1 **Theory of education Meaning Aim**

Including philosofy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

.15 Psychology applied to education

Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154

.2

.3 **Dictionaries Cyclopedias**

.4 **Essays Addresses**

.5 **Periodicals**

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

.59 Educational almanacs and kalendars for teachers

.6 **Organizations Conventions**

.61

.62 Associations Clubs

Permanent societies, their meetings and reports. Divided like 940–999

.63 Congresses Conventions

Occasional congresses and conferences: international or interstate

.7 **Study of education Institutions and organizations for training teachers**

Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12

.71 Teachers meetings

Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–.9

.711 Plan and organization

Frequency, time, place, control, cost, etc.

.712 Programs, courses of study

.714–9 In special places

Divided geograficly like 940–999

.72 Teachers institutes

Divide like 370.71 above

.73 Normal schools

Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75

.731 Plan and organization Aims and functions Scope

Length and time of terms. Support: public, private

.732 Courses, programs Credentials

.733 Adjuncts: practis or model schools

.734–9 Special countries and schools

Divided geograficly like 940–999

.74 Education museums

Including exhibits at international expositions, state and county fairs, etc.

.75 Training classes

Class here teachers classes attacht to regular schools. For normal schools see 370.73

.8 **Polygrafy**

.81 Collected writings of a single author

I f not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc

.82 Collected writings of several authors

370.9 History, description

General works covering both ancient and modern history, and including history of institutions, practis, and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples

.92 Educational biografy

Preferably clast in 923.7

.93–9 History of education in special countries

Subdivided like 930–999

.9401 Medieval Europe

.9405 Modern Europe

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

.1 Teachers Teaching personnel Professors, masters, instructors

See also 370.7 Training of teachers

.101 Duties and responsibilities Missio 1

.102 Personal influence

.103 Relations to parents

Mutual duties of parents and teachers

.104 Relations to community Public status

.105 Social status

.11 Qualifications Personality

See also 371.18

.12 Need of training; kind and amount

Discussion of special preparation of teachers and professors for their vocation. For teachers training schools and classes, see 370.7

.13 Examination Certificates Certified teachers Licenses

.14 Appointment Organization of teaching force

.142 Appointment Contract Discharge Tenure

.143 Appointing body

Board, committee, principal

.145 Agencies

Bureaus and associations for supplying teachers

.15 Professional status

Permanent profession vs steppingstone theory

.16 Salary and promotion Compensation Amount of servis

For pensions and insurance see 371.17

.161 Salary

.162 Fees

.163 Allowance for expenses

.164 Residence Living expenses

.165 Promotion Advance in rank

For salary promotion see 371.161

.166 Hours Daily or weekly servis

.167 Vacation Yearly servis

.168 Sabbatic year

371.17 Pensions and insurance for teachers
Carnegie pension fund

.18 Women as teachers
Feminization of teaching force

.19 Other topics

.2 School organization School records
Diary. 'Logbook.' For government of students, disciplin, see 371.5. For school supervision see 379.15

.21 Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of individual schools are clast with the school

.211

.212 Grammar or intermediate school admission standards
Including standards of German bürgerschulen

.213 High school standards
Including standards of German gymnasia, French collèges and lycées

.214 College standards
Undergraduate and nonprofessional graduate courses in (American) colleges and universities

.215 Professional and technical school standards

.22 Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools; 378.34 Scholarships

.23 Terms Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712

.234 Terms in 2 or more places
For floating schools see 371.392

.24 Hours Recess
For exercise see 371.73 Care of body

.25 Classes Grades
For grading of schools, see 379.17. See also 371.394 Individual instruction

.253 Length of school courses; e. g. 6 year course
See also 378.241 Length of college course

.26 Marking system

.27 Examinations: oral, written Cramming
See also 428.9 Language
For competitiv examinations see 371.53

.28 Promotions Degrading

.29 Other topics

.291 Graduation Diplomas
May be subdivided like 371.21 See also 378.2 College degrees

371.3 Methods of instruction and study

Under the heds below class discussion of pedagogic value of these methods' For methods of teaching specific subjects, see those subjects; for their educational value see 375 Curriculum; e. g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

.31 Rote or concert teaching

.32 Text books Recitations

Use of textbooks. Textbooks themselvs are clast with the subjects treated

.33 Lectures Oral and visual instruction

.335 Visual instruction Lantern slides

.34 Developing or inductiv method

.35 Art of questioning Catechetic method

.36 Topical method

.363 Correlation

.365 Special days

Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc.

.37 Seminary method

.38 Laboratory method

.39 Other

.392 Floating schools or colleges

Combining travel and shipboard instruction

.393 Trips, excursions, visits

.394 Individual instruction Batavia system

By regular teacher or tutor, at home or at school. See also 373.1 Private instruction

.395 Small classes

See also 371.47 Quincy system

.4 Systems of education

For Fröbel's system see 372.2 Kindergarten

.41 Bell and Lancaster, or monitorial Mutual system

.42 Fellenberg or manual training; vocational schools, industrial education

For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01—.9 For individual schools see 607 or 378.99

.421 Educational value

.422 In elementary schools

.423 In secondary schools

.424 In special schools

.429 History and development

371.43 Military organization Military instruction
.44 Pestalozzian
Class here all Pestalozzi's educational writings
.45 Jacotot
.46
.47 Quincy system
.5 Government Disciplin Authority
.51 Rules
.52 Attendance Truancy Tardiness Absences
See also 379.23 Compulsory education
.53 Rewards Prizes Favors Approbation
.535 Interschool literary contests
Competitiv examinations. For interschool and intercollegiate debates see 374.245 For interschool athletics see 371.75
.54 Punishment Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences
.55 Corporal punishment
.56 Other punishments
Confinement; tasks; expulsion; suspension; discharge
.57 Personnel responsible for disciplin Monitors
.58 Moral government Alcott system
.59 Student self government College systems
.595 School city Ray system
.6 School premises and equipment
.61 Grounds Site
School playgrounds
.62 Bildings
Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate bildings
.621 Study, lecture and assembly rooms
.622 Library and museums
Art, science, etc. See also 022 Library bildings; 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027.7–.8 Reports of college and school libraries
.623 Laboratories Observatory Machine shop
See also 542.1 Chemic laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies
.624 Gymnasium
See also 725.85
.625 Other special rooms or bildings
Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
.626 Sanitation Lavatories
.627 Lighting
.628 Heating and ventilation
.629 Accessories
Elevators, lifts, telefones, etc.

371.63 Furnishing and decoration

.631 **Furniture**

Blackboards, desks, chairs, benches. For globes and maps see 371.66

.632 **Musical instruments**

.633 **Floors: bare, coverd**

See also 721.6 Architectural construction
022.96 Library bildings
645 House decoration

.634 **Walls: tints, covering**

.635 **Decoration**

See also 729 Architectural decoration

.636 **Pictures, frescoes** **Glass**

.637 **Sculpture**

.638 **Plants**

.639 **Other decoration**

.64 Libraries

Character and functions. For relation to public library see 021.3; for relation to other school rooms and bildings see 371.622. See also 027.8 School libraries; 027.7 College libraries

.641 **Relations of library to faculty and students**

.642 **School traveling libraries**

.643 **School reading lists**

See also 028.5 Reading of young

.644

.645 **Elementary school libraries**

.646 **Secondary school libraries**

.647 **College and university libraries**

Departmental and seminar libraries

.648 **Professional and technical school libraries**

In 371.645–8 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7–.8 with reports and other matter pertaining to their management

.65 Museums: character and functions

Divided if wisht like 010–999: e.g. 371.655 Science museums; 371.657 Art museums. Limited to character and functions of museums attacht to teaching institutions: see also 708 Art museums, and form division 074 under special subjects

.66 Scientific apparatus, laboratory equipment and supplies

Divided like 500; e.g. 371.662 Astronomic observatory

.67 Other apparatus, equipment and supplies

Divided if wisht like 010–999; e. g. 371.6791 Globes, maps, etc.

.7 **School hygiene**

.71 Helth of students Overstudy Fatigue

.711 **Sanitary conditions and inspection**

Board of helth. For sanitary engineer's side see 371.626

.712 **Medical inspection**

For personal conditions affecting helth and intellectual progress; e.g. clenliness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

371.713 **Posture**

See also 371.631 Furniture (ill designd desks and seats)

.716 **School meals**

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

.718 **Open air schools**

.72 Care of eyes Effect of study

.73 Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

.731 **Educational influence of physical training**

.732 **Gymnastics Calisthenics**

2 In elementary schools

3 In secondary schools

4 In colleges

5 In special schools

6 In girls' schools

.733 **Military drill**

For military organization of school see 371.43

.734 **Fencing**

.735 **Swimming Bathing**

.736 **Riding**

.737 **Walking School promenades**

.74 Recreations Games, etc. Athletics Diversions

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75 Championship games Boat races Interschool athletics

For other relations see Games in Relativ index following Tables

.79 Other special topics

.8 Student life and customs

Various aspects of student life and student activities outside regular courses of study

See also 784.6 College songs; 378.29 College costumes

.805 **Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81 Student honor

Cribbing Cheating Keys Ponies Copying

.82 Fagging and hazing Bullying German student duels

.83 Student organizations German corps

.836 **Ancient student societies**

.84 **Literary societies**

.85 **Secret societies**

Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.86 Society premises Society houses Halls Temples, etc

371.87 Student houses Lodgings Dormitories

.88 Commons Student restaurants Eating clubs

.89 Celebrations Customs Triumfs, burnings, etc.

Anniversaries Ceremonious receptions Student banquets

.895 School plays

Divided by language like 400; e.g. 2 English, 3 German

.896 Class days

Of special institution, with institution

.9 Education of special classes

General questions; kind and methods of education for these classes
For institutions see 362, 364. For study of abnormal children see 136.76

.91 Physically defectiv

See also 362.4 Asylums for blind and def

.911 Blind

See also 655.38 Printing for the blind

.912 Def

Finger alfabet See also 378 for degreeconferring colleges

.913 Blind-def

.916 Crippled

.92 Mentally defectiv

Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.

.93 Morally defectiv Delinquents

See also 364 Reformatories. Criminal classes

.94 Other abnormal classes

See also 136.764-9 in Childstudy

.945 Exceptionals Precocity

.947 Dependents

See also 362 Hospitals, asylums and allied societies

.95

.96 Special ranks

See also 375.002 Courses for different social classes

.961 Princes

.962 Nobles

.97 Special types

See also 136.77 Boys, the 'gang'

.974 Freedmen Negroes

See also 378.75-.76 for degreeconferring colleges

.975 Indians

.976 Orientals

.98 Special nationalities

Special schools for foreners; e. g. Germans, Hungarians, Russians, Japanese in United States

.99 Coeducation of races

372 Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crèches 362.7

.01 **Pedagogics and didactics of primary schools**

.1

May be used like 136.7 by those who insist on having childstudy with education

.2 **Kindergarten**

See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

.201 **Theory Principles**

.202

.203

.204 **Essays**

.205 **Periodicals**

.206 **Societies**

.207 **Training of kindergartners**

.208

209 **History**

Divided if wisht like 940–999

.21 Methods

.211 **Gifts and occupations**

.212 Gifts

.213 Occupations

.214 **Stories**

.215 **Songs and games**

.22 Influence of kindergarten

.23 Relation to other schools

.3 **Observing powers Object teaching Science**

.35 Nature study

Divided like 500–599; e.g. Birds 372.35982

.36 Gardening

.4 **Reading Alfabet Fonics and word methods Spelling**

See also 428.6 Elementary readers

.45 Simultaneous teaching of reading, writing and spelling

.5 **Elementary writing and manual work**

See also 741 Freehand drawing

.51 Writing

First efforts, imitating printed roman letters

.52 Drawing Design

See also 741 Drawing

.53 Clay modeling

.54 Sewing, etc.

.55 Elementary basketry, weaving and braiding

372.6 **Elementary grammar Language lessons**

See also 400 Philology, subdivision 8 under each language

.61 Mother tung

.65 Second language

.7 **Elementary arithmetic**

Including mental arithmetic. See also 511. For Abacus see 511.2

.8 **Other studies**

Divided if wisht like 010–999; e.g. 372.82 Religion

.89 Elementary geografy

See also 910.7. Elementary textbooks may be put with their subjects, but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy, Description, and Travel. Text books, except primary, go with their subjects

.9 **Special countries and schools: history, reports, etc.**

Divided like 940–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Academic Preparatory

Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4–.9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselvs in 372, 373, 378, etc. according to their grades

For specific topics see 371

.1 **Private instruction: tutor, governess, coach**

.11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

.2 **Day schools Boarding schools**

.4–.9 **Special countries and schools: history, reports, etc.**

Divide like 940–999; e.g. 373.42 Higher English schools, Eton, Harrow, etc.

374 Home education Self education and culture

Cultural, personal aspect of education

Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.

The term Home education covers the broad field of adult self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities, see 021.2 See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc.

Reading lists themselvs, syllabuses and other aids to study belong with other bibliografies (016) or with compends under their subjects. They may however, if preferd, be kept together under 374.19, divided like the classification; e.g. syllabus on English history 374.19942; on library economy 374.1902

See 028, for preparation of guides, policy, methods, etc.

Vocational guidance Choice of vocation is clast here because usually discust with self education and closely related to it and preparation for life, and is also often determind thru personal advice or conversation

.2 Associated study Clubs

.21 Study clubs

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratorical clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

.25 Traveling clubs Educational value of travel

Clubs which travel for education. See also 371.392, 371.393, 374.21

.28 Community centers

Whole community as a club of varied interests. Put here discussion of use of school bildings for various community purposes

.3

With personal guidance

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Including methods of correspondence teaching

.43 Societies for encouraging home study

.44–.49 Correspondence schools

General schools divided like 940–999. Special schools are better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.714

.5 Lectures

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1 Lectures 3 Class 5 Guided reading 7 Examination
2 Syllabus 4 Papers 6 Club

374.6 Extension courses Lecture study

.62 Lecture study

3 or more lectures on the same subject, with 2 or more of the 7 factors

.64 Extension courses

5 or more lectures on the same subject with 4 or more of the 7 factors

.8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools
Divided like 940–999 For evening or night schools see also 379.19

.9 Central organizations, state departments, institutes

N.Y. state home education dept, Brooklyn institute, Cooper institute Chautauqua, etc.

375 Curriculum

.001 Order of studies
.002 Single course
.003 Parallel courses
.004 Optional courses Electiv system
.005 Balanced courses Group system

Special topics

.006 Overcrowding curriculum
.007 Courses for different classes of society
1 For bredwinning vs culture
2 Failure of course to develop efficiency
.008 Courses for schools of special kinds

Courses in schools of Roman catholic order of St Ann; outline of study for common schools; courses in French lycées, etc.
See also special schools under their respectiv subjects

.009 Courses for institutions in special countries

Divided like 900. See also 379.4–.9

.01–.9 Subjects of study

Divided like the classification 010–999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum

Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;

e.g. 375.32 B Educational value of political science
375 32 C Place of political science in the curriculum

376 Education of women

See also 396.4

.1 Physical capacity of women

.2 Mental capacity of women

See also 136 1 Mental characteristics as influenced by sex

.3 Home or domestic instruction

By tutor or governess. See also 374

.4 Fashionable education 'Finishing' schools

Discussion. For prospectuses, catalogs, etc, see 376.9

.5 Convent education

Discussion. For prospectuses, catalogs, etc, see 376.9

376.6 **Higher education of women**

Secondary and college

.63 Secondary: preparatory schools for girls

All between primary and college. Discussion. For girls highschools see 379.4–.9; for private preparatory schools see 376.9

.64 Influence of college education on women

.66 Associations of college women

Association of collegiate alumnae. Alumnae of a single college with that college

.7 **Coeducation Segregation Separation**

Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc.
Class here by attraction general discussion of coeducation of sexes in college and secondary school

.8 **Colleges for women**

Degreeconferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

.9 **Special countries and schools: history, reports, etc.**

Subdivided like 940–999; e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education

Relations of religious to secular education. For inculcation as well as actual teaching of definit ethical or religious doctrins see 375; e. g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239. Class catalogs, history, etc. of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

.1 **Religious instruction Bible in public schools**

Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

.2 **Ethical education**

Ethical training, without religious teaching, as advocated by ethical societies
See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 **Monastic or abbey schools**

Ecoles congréganistes. Divide like 271. See also 271 Monastic orders; 376.5 Convent education of girls

.4 **Diocesan schools Cathedral schools**

Domschulen, stiftschulen

.5 **Parochial schools**

See also 257 Parochial schools

.6 **Missionary schools**

Establishment and conduct of schools as part of mission work. See also 266 Missions

.7 **Charity schools**

Mainly for elementary education. See also 361 Charitable institutions

.8 **Church and education**

Subdivided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

.9 **Nonchristian religions and education**

Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education

·378 Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8

.01 **Definition of college and university Aim**

Advantages and influence of college training; e.g. on business capacity

.014 College terminology, 'slang'

Including also student slang. See also 427, 437, etc.

.05 **Academic periodicals**

Periodicals devoted to college and university interests. Those issued by colleges, schools, etc. are scatterd either by subject or under college numbers

.06 **General college associations**

Association of New England colleges See also 370.6

.068 Associated alumni University clubs

For alumni associations of any one college, see T under college number

.069 Duties of college men as a body

.1 Organization Government Location Scope, field

Classes, colleges, graduate departments, etc.

.11 Administrativ offisers

.113 Disciplinary offisers, judicial corps, university court

President, deans, etc.

.12 Teaching staff Faculty

Exchange of professors. For qualifications see 371.11

.121 Freedom of teaching

See also political science, 323.444

.13 University extension

Conducted by universities. See also 374

.14 College year Summer or vacation instruction All the year session

.15 Location and size Large vs small

.153 City vs country colleges

.16

.17

.2 Academic degrees and costume College colors

See also 614.21 Medical degrees

Degrees

.21 Degree conferring body and powers

College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees

Pass, honor, cum laude, magna cum laude, etc.

.23 Degrees in course

Advanced degrees conferd at specified periods on graduates in good standing, without evidence of advanced attainments

378.24 Degrees for completion of courses
With or without examination

.241 Time and residence required Length of college course

.242 Subjects allowable for liberal degree
Whether technical courses should be credited toward liberal degrees

.243 Differentiation of degrees: B.A. B.S. B.L. etc.

.244 Degrees on examination
With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and class College flags

.29 Academic gowns and hoods

.3 Endowment of research Fellowships Scholarships Student aid

.31

.32 Endowment of research
Carnegie institution. Incentivs to research. Prizes. Opportunities for research. Nobel prizes. Competitions

.33 Fellowships

.34 Scholarships
Rhodes scholarships Traveling scholarships

.35

.36 Student income and expenses

.362 Loan funds Student aid societies

.364 College employment bureaus Faculty committees
Other organizations for securing work for students

.365 Student earnings
Working way thru college Ways of earning

.368 Student expenses: extravagance, economy

4–.98 Special countries and colleges: history, reports, etc.

For women's colleges, see 376.8

Subdivide like 940–999; e.g. 378.42 English universities; 378.741 Maine colleges

The various colleges of any section may be given each a number or be arranged alfabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures) used to designate the college; e.g. a history of Harvard college would be markt 378.744 H E, and a second history would be numberd 378.744 H E1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers

If preferd, colleges and universities may be arranged alfabetically under continent number, insted of being clast first by country or state; e.g. European universities under 378.4 in alfabetic order regardless of country. United States colleges and universities all in one alfabet under 378.73

378.99 Professional, technical and other special schools Professional education

Best kept with subject, but may be compactly groupt here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports, etc
C Administration President, chancellor Reports, etc
D Finances Tresurer's reports
E History Foundation, growth, etc
F Biografy Necrology
G General catalogs Triennials, etc
H Annual catalogs Attendance, registers, etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals, etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations Certificates for admission
N Lectures Class manuals Examination questions
O Student theses Orations, essays, etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Class day, etc
T Alumni Societies, committees, etc
U Classes Histories, records, etc
V Pictures Class albums
W Bildings and grounds Descriptions, maps, etc
Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education

.1 Public school system

.11 School funds

.12 National and state aid to education

.121 Public aid to private and sectarian schools

.123 Land grants

See also 336.14 Public finance

.124 Subsidies

.13 Local support

Taxation Bonds Endowment Nonresident tuition See also 336.28 Taxation

379.14 School laws and regulations School age
Divided like 940–999

.15 School supervision and control: national, state and local Centralization

.151 National

.152 State: department, inspectors, etc.

.153 Local: superintendent, school committee, board
Supplies, free textbooks, etc. For school meals see 371.716

.154 Individual: parents and others

.156 State textbooks

.16 Public colleges and universities: national, state and local
Only discussion here; for individual colleges see 378.4–.9

.17 Secondary schools
Discussion. For individual schools see 379.4–.9

.171 Highschools Academies
6 year highschools

.172 Grammar schools

.173 Rural schools

.175 Central plan Conveying pupils

.18 Primary schools Kindergartens
Questions of public maintenance. For individual schools see 372.9

.19 Evening schools
See also 374.8

.2 Illiteracy Instruction of illiterates

.21 Illiteracy and crime Education and crime Criminal illiterates

.22 Illiteracy and pauperism Indigent illiterates
See also 339 Pauperism; 362.5 Pauper asylums

.23 Compulsory education
See also 371.52 Truancy

.24

.3 Public vs private and endowd schools

.4-.9 Special countries, sections, cities, etc.

Subdivided like 940–999: e.g. 379.73 Reports of U.S. commissione of education; 379.744 Education in Massachusetts; 379.7471 in New York city. Keep state departments separate from city and other local systems by numbering state reports. A1–A8, using A9 followd by author's initial (lower case) for history of schools of any state; e.g. Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

Public utilities. The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations.]

.16 Government control of public utilities

381 Domestic trade

382 Foren trade Consular reports

Trade between mother country and colony

383 Postal servis

See also 353.4 U. S. administration

384 Telegraf Cable Telefone

See also 621.38 and 654

385 Railroad and express

Government ownership or control. Interstate commerce commission. See also 656 Railroading

386 Canal and highway transportation

See also useful arts, 656 Transportation

387 River and ocean transportation

History of shipping. Ship subsidies

See also useful arts, 656 Transportation

388 Local transit: city and interurban

See also engineering 625

389 Weights and mesures Metrology

See also 658 Business manuals

390 Customs Costumes Popular life

These heds are for discussions by topic. Customs, etc. of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men
.2 " " women
.3 " " children
.4 Extremities: hats, gloves, sandals, shoes, stockings, etc.
.5 Hairdressing Barbers
See also 646.7 Toilet
6 Care of person Bathing Toilet
.7 Ornaments and jewelry
.8

392 Birth, home, and sex customs

.1 Birth customs: christening, circumcision
.2 Sacrifice and exposure
See also ethics, 173.4 Infanticide
.3 Family and home relations
.4 Betrothal
.5 Marriage
.6 Sex relations Concubinage

393 Treatment of the ded

See also 614.6 Public helth

.1 Earth burial
See also 719 Cemeteries
.2 Cremation
.3 Embalming, mummies
.4 Exposure
.9 Special funeral customs: wake, suttee

394 Public and social customs

.1 Eating, banquets
.2 Shows and diversions
.3 Games Dances, etc.
.4 Ceremonies
.5 Processions
.6 Fairs
.7 Chivalry Tournaments
.8 Dueling Suicide
For other relations see Dueling in Relativ index following Tables

395 Etiquet

Codes of social procedure and behavior. For social ethics see 177

396 Woman's position and treatment

For costumes, see 391.2; biografy, 920.7

If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 **Emancipation**

.2 **Legal status, property, rights, etc.**

.3 **Political status**

See 324.3, Suffrage; 329.83, Woman suffrage party

.4 **Education**

See also 376, Education of women

.5 **Employment**

See 331.4, Labor of women; 371.18, Teachers

Divided like the general classification; e. g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in home**

.7 **Delineation of woman in art**

.8 **Delineation of woman in literature**

.9 **Woman in history, politics, war Amazons**

397 Gypsies Nomads Outcast races

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which till recently had no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history

398 Folklore Proverbs, etc.

See also 291–3 Mythology

This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection

.1 **Primitiv traditions**

.2 **Legends, tales, traditions**

.3 **Folklore, traditional beliefs and customs, popular superstitions**

.4 **Fairies, elvs, ogers, monsters, etc.**

Bogies, gnomes, dragons, vampires, werewolvs

.5 **Chapbooks**

.6 **Riddles**

.7 **Dream books**

.8 **Song books**

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 **Proverbs**

399 Customs of war

Wepons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practis are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group

401 Philosofy Origin of language
402 Compends, outlines
403 Dictionaries, cyclopedias
404 Essays, lectures, addresses
405 Periodicals
406 Societies, transactions, etc.
407 Education, teaching languages
408 Polygrafy Collections
.9 **Universal language**
.91 Volapük
409 History of language

410 Comparativ

410–419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410–418 may be subdivided like 420–428

411 Orthografy Orthoepy Alfabets
412 Etymology, derivation
413 Dictionaries, lexicografy
414 Phonology Visible speech
See also 612.78 Physiology of speech
415 Grammar, morfology, syntax
416 Prosody
417 Inscriptions Paleografy
See 421.7, 471 7, 481.7, etc. Rare early mss are put in 091
418 Texts
419 Hieroglyfics
See also 493.1
.1 **Sign language**
For def mute alfabets, see 371.912

420 English philology

.1 Philosofy .2 Compends .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

421 Orthografy

See also this hed treated in general grammars placed under 425

.1 **Alfabet**

For def mute alfabets, see 371.912

.2 **Vowels Difthongs Aspirates**

.3 **Consonants**

.4 **Phonetic spelling Spelling reform**

.5 **Orthoepy**

.6 **Accent**

.7 **Paleografy Inscriptions**

.8 **Abbreviations**

For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 **Punctuation**

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425 1

.1 **Origin and laws of language**

.2 **Prefixes Suffixes**

.3 **Reduplication**

.4 **Foren elements**

.5 **Noun forms: case, number, diminutivs**

.6 **Adjectival forms Degrees of comparison**

.7 **Pronominal forms: personal, possessiv, relativ, etc.**

.8 **Verbal forms: moods, tense, voice, etc.**

.9 **Particles: adverbs, prepositions, etc.**

423 Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tungs is more convenient. References in either case show what may be found in the other place

NB

424 Synonyms Homonyms

425 Grammar

425 includes general works, covering also orthografy and prosody

.1 **Morfology Inflection**

Divided like 425.2 Syntax; e. g. .5 Nouns, etc. See 422

.2 **Syntax**

.3 **Arrangement of words and clauses**

.4 **Particular sentences: conditional, hypothetic, etc.**

.5 **Nouns**

.6 **Adjectivs Articles**

.7 **Pronouns**

.8 **Verbs**

.9 **Particles**

426 Prosody

See also the hed Prosody, in general grammars 425

.1 **Quantity and accent**

.2 **Versification**

.3 **Feet**

.4 **Figures of prosody**

.5 **Meters**

.6 **Rimes**

.7 **Strophe and antistrophe**

.8 **Textbooks for writing verse**

.9

427 Dialects Early forms of language Slang

Subdivided by geografic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds are placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0: the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see literature of the language, 82[illegible]

.1 **Spelling books**

.2 **First lessons Elementary composition** For Rhetoric see 808.

for foreigners

Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars

.3 **Errors of speech Vulgarisms Use of words**

See 427.09 Slang; 424 Synonyms

.6 **Elementary readers** See also 372.4 Education

for English speaking people

For primers and primary readers see 372.4. Class here 3d and 4th readers, and put higher readers with literature collections; 808.8 if general, 820.8 if English or English and American, etc.

.7 **Selections**

.8 **Texts of individual authors**

With grammatic notes and questions. Preferably class in 8[illegible] with cross references here

.9 **Examination papers**

429 Anglo-Saxon

All languages are subdivided like 420 English

430 German

437.01 Old High German; 437.02 Middle High German

439 Minor Teutonic

Including general works on Teutonic group

.1 Low German
.2 Frisian Old Saxon
.3 Dutch Flemish
.4 Plattdeutsch
.5 Scandinavian
.6 Old Norse Icelandic Faroese
.7 Swedish
.8 Danish Norwegian
.9 Gothic

440 French

443.2

447.9 Canadian and creole French, etc.

449 Provençal

Old French, as the earliest form of the langua e, is 447.01

450 Italian

459 Wallachian

.9 Rumansh

460 Spanish

469 Portuguese

470 Latin

479 Minor Italic Medieval Latin

Including general works on Romance group

480 Greek

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Minor Hellenic Modern Greek

Including general works on Hellenic group

Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics

490 Minor languages

Each language subdivided if wisht like 420 English

491 Minor Indo-European

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489
This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410

.1 **Indic**
.2 **Sanskrit**
.27 Sanskrit dialects Prakrit
.3 **Pali**
.4 **Modern East Indian languages**
Excluding Dravidian, which is 494
.41 Sindi
.42 Panjabi
.43 Hindustani Hindi
.44 Bengali
.45 Uriya Orissa
.46 Marathi
.47 Gujerati
.48 Singhalese
.49

.5 **Iranic**
.51 Old Persian
.52 Zend (Avestan) Old Bactrian
.53 Pehlevi (Huzwaresh)
.54 Armenian
.55 Modern Persian
.56 Ossetic
.57 Kurdish
.58 Afghani
.59

.6 **Keltic**
.61 Gadhelic group
.62 Irish
.63 Gaelic or Scotch
.64 Manx
.65 Cymric group
.66 Welsh or Cymric
.67 Cornish
.68 Armorican or Bas Breton
.69 **Basque**

.7 **Russian**
.79 Ruthenian

491.8 **Other Slavonic**

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)

.82 Serbian

.83 Kroatian

.84 Slovenian

West Slavonic group

.85 Polish

.86 Bohemian

.87 Moravian Slovakian

.88 Sorbian

.89 Polabian

.9 **Lettic**

.91 Old Prussian

.92 Lithuanian

.93 Lettish (Livonian)

492 Semitic

Northern group

.1 **Aramaic**

.19 Babylon and Nineveh cuneiform

.2 **Chaldee**

.3 **Syriac** (Peshito)

Central group

.4 **Hebrew**

.5 **Samaritan**

.6 **Phenician** (Carthaginian)

Southern group

.7 **Arabic**

.8 **Ethiopic** (Amharic)

.9 **Himyaritic**

493 Hamitic

.1 **Old Egyptian**

See 419 Hieroglyfics

.2 **Coptic**

494 Scythian Ural-Altaic Turanian

Dravidian Tamil Finnish Turkish Magyar, Hungarian

495 Eastern Asiatic Chinese Japanese

496 African

Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497 North American

498 South American

499 Malay-Polynesian and other

Natural Science

500 Science in general

501–509 all have *Science in general* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. 0 in any class number in any part of the classification shows the subject to be general, not specific

501 Philosofy, theories, utilities, etc.

502 Compends, outlines Ancient and medieval science

503 Dictionaries, cyclopedias

504 Essays, lectures, addresses

505 Periodicals, scientific magazines

506 Societies: transactions, etc.

507 Education, methods of teaching and study Museums

508 Polygrafy: collected works, extracts, etc.

.1 Extracts .2 .3 General scientific travels .4—.9 Travels and surveys (if general) divided geograficly like 940–999

509 History of science

510 Mathematics

Works on *Mathematics in general* not limited to any one or two sections, are groupt by form of treatment like Science in general above; i. e. into Mathematical

510.1 Philosofy .2 Collections, compends .3 Dictionaries .4 Essays, papers tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

.1 Systems of arithmetic

See also 512.81 Theory of numbers

.2 Notation and numeration Fundamental rules Abacus

.3 Prime numbers

.4 Fractions

.5 Analysis Permutation and combination

.6 Proportion and progression

.61 Magic squares

.7 Involution and evolution

.8 Mercantil rules Interest Alligation Mensuration Gaging

See also 658 Business manuals

.9 Problems and tables

512 Algebra

.1 **Systems of algebra**

.2 **Numeric equations** **Imaginary expressions**

.21 Equations, 1st to 4th degrees

.22 Higher numeric equations

.23 Indeterminate equations Diophantin analysis

.24 Imaginary expressions

.3 **Algebraic equations** **Maxima and minima**

.4 **Series** **Fractions** **Binomial theorem** **Taylor's theorem**

.5 **Combinatory analysis**

.6 **Proportion and progression**

.7 **Involution and evolution**

.8 **Higher algebra**

.81 Theory of numbers See 511.1 Systems of arithmetic

.82 Theory of equations Complex variable See also 517.8

.83 Determinants

.84 Symmetric functions

.85 Elimination: eliminants and discriminants

.86 Transformations Substitutions

.87 Quantics

.88 Invariants Covariants Contravariants

.89

.9 **Problems and tables**

513 Geometry

Plane and solid geometry bound together is put 513. Descriptiv geometry is 515
See also 744 Mathematic drawing

.1 **Plane geometry**

.11 Right lines

.12 Intersecting lines

.13 Parallel lines

.14 Triangles

.15 Quadrilaterals

.16 Other polygons

.17 Similarity

.18 Areas

.19 Maxima and minima

.2 **Curvs**

.21 Circles

.22 Conic sections

.23 Ellipse

.24 Hyperbola

.25 Parabola

.26 Higher plane curvs

513.3 **Volumetric or solid geometry**
- .31 Lines and planes
- .32 Intersecting planes
- .33 Parallel planes
- .34 Polyedrons
- .35 Pyramids
- .36 Prisms
- .37 Regular
- .4 **With curvd surfaces**
- .41 Sphere
- .42 Cone
- .43 Cylinder
- .5 **Modern geometry**
- .51 Points Lines Planes Duality
- .52 Transversals
- .53 Cones Conics Involution
- .54 Radical axes and centers of similitude
- .55 Poles and polars Reciprocal polars
- .56 Harmonic and anharmonic properties
- .57 Correspondence Correlation of figures
- .58 Quadric surfaces: spheroconics, curvs of double curvature
- .59 Surfaces of higher order: cubics
- .6
- .7
- .8 **Absolute or non-Euclidean geometry**
- .9 **Problems**

514 Trigonometry

- .1 **Trigonometric functions General formulas** See 522.7
- .2 **Trigonometric series**
- .3 **Exponential formulas**
- .4 **Solution of trigonometric equations**
- .5 **Plane trigonometry: solution of plane triangles; analytic**
- .6 **Spheric trigonometry General formulas**
- .7 Solution of spheric triangles
- .8 **Differences of triangles, plane and spheric**
- .9 **Problems**

515 Descriptiv geometry and projections

See also 744 Mathematical drawing

.1 Orthogonal projection on 2 planes

.11 Straight lines Planes

.12 Single curvd lines

.13 Double curvd lines

.14 Single curvd surfaces

.15 Double curvd surfaces

.16 Surfaces of revolution

.17 Warpt surfaces

.18 Intersections of surfaces

.2 Isometric and analogous projections

.3 Oblique projection

.4 Conic projection

.5 Spheric projection See 526.8 Map projection

.51 Orthografic

.52 Globular

.53 Stereografic

.54 Polar

.55 Gnomonic

.56 Conic

.57 Cylindric

.6 Perspectiv See also 742 Drawing

.61 Plane Parallel Oblique Angular
See also Scene painting

.62 Cylindric
See also Panorama painting

.63 Shadows; natural and artificial light

.64 Reflections

.65 Circles, cylinders and spheres

.66 Distortions and corrections

.67 Human figure

.68 New methods Special devices

.7 Shades and shadows

.8 Stereotomy

.81 Stonecutting See also 693.12 Masonry; 730 Sculpture

.82 Carpentry See also 694 Bilding

.83 Stairbilding See also 694.8 Bilding; 729.39 Architectural design

516 Analytic geometry

.1	CARTESIAN	**Plane loci**
.11		Right lines
.12		
.13		
.14		Transformation of coordinates
.2		**Curvs**
.21		
.22		Conic sections
.23		Ellipse
.24		Hyperbola
.25		Parabola
.26		Higher plane curvs
.3		**Loci in space**
.31		Right lines
.32		Planes
.33		
.34		Transformation of coordinates
.4		**Curvd surfaces**
.41		
.42		Conicoids or quadric surfaces
.43		Ellipsoid
.44		Hyperboloid
.45		Paraboloid
.46		Surfaces of higher order
.5		**Modern analytic geometry**
.51		Systems of coordinates
.52		Abridged notation
.53		Conics
.54		Higher plane curvs
.55		Poles and polars Reciprocal polars
.56		Harmonic and anharmonic properties
.57		Method of projection
.58		Quadric surfaces: spheroconics, curvs of double curvatures
.59		Surfaces of higher order: cubics
.6		
.7		
.8		**Quaternions: calculus of direction and position**
.9		**Problems**

517 Calculus

.1 **Infinitesimal Method of exhaustions**

Differential and Integral calculus, *bound together*, is put here

.2 **Differential**

.21 Series

.22 Indeterminate forms

.23 Change of the independent variable

.24 Theory of plane curvs Curv tracing

.25

.26 Theory of curvd surfaces

.27 Maxima and minima

.28

.29 Problems

.3 **Integral**

.31 Formulas of reduction and integration

.32 Definit integrals Eulerian integrals

.33 Rectification Quadrature Cubature

.34 Multiple integrals

.35 Laplace's functions Bessel's and allied functions

.36 Elliptic and hyperelliptic functions Abelian functions

.37

.38 Differential and partial differential equations

.39 Problems and tables

.4 **Of variations**

.5 **Of functions**

.6 **Of finite differences**

.7 **Of operations**

.8 **Of imaginaries Complex variables** See also 512.82

.9 **Problems**

519 Probabilities

.1 **General principles Direct and inverse probabilities**

.2 **Mathematical and moral expectation**

.3 **Testimony: decisions of juries and tribunals**

.4 **Probability of future events deduced from experience**

.5 **Life contingencies: annuities, life insurance** See 368.3

.6 **Errors of observation Mean or average values**

.7

.8 **Method of least squares**

.9 **Problems**

520 Astronomy

520.1 Astrology, see 133.5 520.2 Compends 520.3 Dictionaries 520.4 Essays
520.5 Periodicals 520.6 Societies 520.7 Study and teaching of astronomy
520.8 Collections, etc. 520.9 History of astronomy
See also note under Natural science in general, 500–509

521 Theoretic astronomy

Mathematical investigation of celestial motions, specially of the Solar system. Motions of individual bodies are clast under separate heds in 523

.1 Celestial dynamics

.11 General laws of equilibrium and motion See also 531.2
.12 Law of universal gravitation and motion relativ to the sun
See also 531.51
.13 Problem of 3 bodies
.14 Figures of hevenly bodies
.15 Rotation of hevenly bodies

.2 Geocentric and heliocentric place

.21 Plane of orbit in space
.22 Position of orbit in its plane
.23 Position of body in its orbit
.24 Position of body in space
.25 Heliocentric longitude and latitude
.26 Geocentric longitude and latitude
.27 Variations of right ascension and declination
.28 Variations of longitude and latitude
.29

.3 Orbits

.31 Definitions of orbits
.32 Determination from 3 observations
.33 Determination from 4 observations
.34 Variation of elements of orbit
.35 Correction of approximate elements of orbit
.36 Application of method of least squares
.37 Kepler's problem
.38 Equation of center and radius vector
.39

.4 Perturbations

.41 Mutual action of planets
.42 Action of satellites
.43 Nonsphericity of planets
.44 Resisting medium

.5 Theory of planets

.6 Theory of satellites

.7 Theory of comets

.8 Theory of eclipses

.9 Precession and nutation See also 522.95–.96

522 Practical and spheric

.1 Observatories

.11 General plan, location
.12 Material and mechanism of dome, drum, etc.
.13 Transit bildings, wings, etc.
.14 High altitude observatories
.15 Portable
.19 History, reports and serial publications of observatories

.2 Telescopes See also 535.83 Optics

.21 Reflecting
.22 Refracting
.23 Eye piece and accessories
.24 Object glass
.25 Mounting, tube, etc.
.26 Equatorial mounting
.27 Transit mounting
.28 Observing chairs, etc
.29 Famous telescopes

.3 Meridional instruments

.31 Finding meridian line
.32 Mural circles
.33 Meridian circles
.34 Transit: placing in position
.35 Collimation constant
.36 Level constant
.37 Azimuth constant
.38 Other constants, flexure, index error, etc.

.4 Extra meridional instruments

.41 Sextant and quadrant, reflecting circle, astrolabe
.42 Altazimuth
.43 Zenith telescope
.44 Transit out of meridian
.45 Heliometer
.46 Equatorial
.47 Prime vertical

.5 Auxiliary instruments

.51 Sidereal clock and chronometer
.52 Electrochronograf
.53 Micrometers
.54 Personal equation machine See 522.97
.55 For illumination
.56 For solar observation
.57 Artificial horizons
.58 Heliostat

522.6 **Auxiliary observations**

.61

.62 Photometry See 535.2 Optics

.63 Photografy See 535.85 Optics; 770 Photografy

.64

.65 Polarization See 535.5 Optics

.66

.67 Spectroscopy See also 535.84
Technic; application to astronomy and use with telescope. For results see 523.37, 523.57, 523.67, 523.77, 523.87

.68

.69

.7 **Spheric astronomy** See also 514.6

.71 Celestial sphere Spheric coordinates

.72 Rectangular coordinates

.73 Transformation of coordinates

.74 Differential variations of coordinates

.75 Interpolation

.76 Meridian line Variation of compass

.77 Reduction of observations to the meridian

.78 Use of globes

.79

.9 **Corrections**

.91 Parallax

.92 Refraction See 535.3 Optics

.93 Semidiameter of celes tial bodies

.94 Aberration

.95 Precession See 521.9

.96 Nutation " "

.97 Personal equation See 522.54

.98 Instrumental errors

.99

523 Descriptiv astronomy

.1 **Universe**

.11 Structure of universe

.12 Nebular hypothesis

.13 Plurality of worlds

.14 Space and its temperature

.15 Resisting medium

.16 Cosmic dust

.17 Repulsiv force

523.2 **Solar system**

.21 Distributiv laws of planets

.22

.23 Conjunctions and oppositions

.24 Motion of solar system in space

.25 Constitution of planetary system

.26 Stability of solar system Ecliptic

.27

.28 Orrery, planetarium, gyroscope, etc. See 531.34 Rotation

.29 Zodiac

.3 Moon

.31 Constants: size, mass Distance and parallax

.32 Heat and light Phases

.33 Orbit and motions

Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations. See also 521.6 for Orbit

.34 Features of surface: mountains, plains, etc.

.35 Atmosphere

.36 Physical condition

.37 Spectrum

.38 Eclipses

.39 Charts, photografs, etc.

.4 Planets

.41 Mercury and intramercurial

.42 Venus

.43 Mars

.44 Asteroids

.45 Jupiter

.46 Saturn

.47 Uranus

.48 Neptune and transneptunian

.49 Charts, photografs, etc.

.5 Meteors and zodiacal light

.51 Aerolites

.52 Fireballs

.53 Meteoric showers, radiant points, etc.

.54 Systems of meteors

.55

.56 Connection of comets and meteors

.57 Spectrum

.58 Hight of atmosphere from observation

.59 Zodiacal light Aurora (borealis and australis)

523.6	**Comets**
.61	Appearance and development
.62	
.63	Orbits
.64	Remarkable comets
.65	
.66	Physical constitution
.67	Spectrum
.68	
.69	Charts, photografs, etc.
.7	**Sun**
.71	Constants, dimensions
.72	Heat and light: theories as to source
.73	Apparent motion Rotation See 525.38 Tables
.74	Spots, faculæ, and other features of surface
.75	Prominences, chromosphere, corona
.76	Theories of physical constitution
.77	Spectrum
.78	Eclipses
.79	Charts, photografs, etc.
.8	**Stars**
.81	Stellar parallax, distance
.82	Heat and light Photometric observations Magnitude Visibility
.83	Proper motion, stardrift
.84	Variable, double, and multiple stars
.85	Clusters and nebulas
.86	Physical constitution
.87	Spectrum
.88	
.89	Constellations, maps, catalogs, etc.
.9	**Transits and occultations**
.91	Transits of Mercury
.92	Transits of Venus and solar parallax
.93	Delisle's method
.94	Halley's method
.95	Photografic method
.96	Transits of Venus to 1874
.97	Transit of 1882
.98	
.99	Occultations

524 Maps, observations, and tables

Series of observatory publications may be kept together under 524, or under 522.19 with the history and reports of the observatory. Special maps or observations, e. g. on Sun or Moon, are better placed in subsections 9 *under those heds* in 523, with charts and photografs, e. g. 523.79, thus leaving these bracketed numbers 524 to 524.9 blank They are printed to provide a place in case it is wisht to keep *all* maps and observations together

.3 **Of moon** See also 523.39
.4 **Of planets** See also 523.49
.5
.6 **Of comets** See also 523.69
.7 **Of sun** See also 523.79
.8 **Star catalogs** See also 523.89]

525 Earth

.1 **Constants**
.11 Mass Weight
.12 Density
.13 Dimensions, diameter
.14 Figure: geomorfy, equatorial belt
.15 Distance from sun
.16 Parallax
.2 **Heat Light**
.3 **Orbits and motions**
.31 Period of revolution
.32 Obliquity of ecliptic to equator
.33 Eccentricity
.34 Perturbations
.35 Rotation
.36 Foucault's pendulum
.37 Deviation of falling bodies and projectils
.38 Tables of the sun Apparent motion See 523.73 Sun
.4 **Geografic coordinates**
.41 Finding latitude See also 527.1
.42 By meridian altitudes
.43 By Pole star
.44 By altitude of 2 or more stars
.45 By other methods
.46 Finding longitude See also 527.2
.47 Terrestrial means: chronometers, telegraf, signals
.48 Celestial signals: eclipses, occultations, transits
.49 Lunar methods
.5 **Seasons**
.51 Effect of inclination of equator to ecliptic
.52 Effect of eccentricity of earth's orbit
.53 Secular changes of seasons
.54 Seasons on Mars and other planets

525.5 **Tides**
- .61 Mathematical theory
- .62 Effect of sun and moon in producing tides
- .63 Distribution, diurnal inequality, spring and neap, priming and lagging
- .64 Establishment of a port Coast form modification
- .65 Velocity of hight of tide wave
- .66 Tides on inland seas
- .67 Supposed effect in retarding Earth's revolution
- .68 Tide registering and predicting machines
- .69 Tide tables

.7 **Twilight**

526 Geodesy

526.2-.8 apply to surveys of large tracts, requiring allowance for earth's curvature and more exact methods of determination. For local surveys see 529.6

.1 **Theory and determination of Earth's figure**
- .11 Potentials of ellipsoids
- .12 Equilibrium of rotating spheroid
- .13 Law of ellipticity
- .14 Airy's and Pratt's theories as to attraction of mountains
- .15 Determination of figure by Airy, by Bessel, and by Clarke
- .16 Ellipsoidal figure and position of axes
- .17 Geoidal figure

.2 **Base mesuring and apparatus**
- .21 Standards of length and temperature
- .22 Apparatus of Struve, Bessel, Colby, U. S. coast survey, U. S. lake survey, etc.
- .23 Adjustments of apparatus
- .24 Location of base line
- .25 Field operations
- .26 Calculation of results and corrections
- .27 Verification

.3 **Field work of triangulation**
- .31 Reconnaissance
- .32 Stations

  Names, signals, tripods, scaffolds and towers, surface and underground monuments
- .33 Observations, instruments and records
- .34 Reduction to station's center
- .35 Corrections for phase of signal and eccentricity
- .36 Spirit leveling
- .37 Barometric leveling
- .38 Trigonometric leveling

  These are methods. See 551.53, for results, lists of hights, etc.
- .39

525 4 **Computation of triangulation**

.41 Spheric excess

.42 Legendre's theorem

.43 Chord process

.44 By spheric trigonometry

.45 By spheroidal trigonometry

See also application of least squares, 522.6

.46 L M Z formulas and applications

.47 Direct deduction by Bessel

.48 Deduction by Puissant

.49 Tables for computation

.5 Theory of least squares in adjustment of figures, etc.

.51 Method of independent angles

.52 Adjustment of a quadrilateral

.53 Adjustment of triangulation net

.54 Method of directions

.55 Adjustment for closure of a circuit

.56 Method of repetitions

.57 Adjustments of base mesures

.58 Adjustments of leveling

.6 Astronomic determinations and their connection with geodetic results

.61 Latitude determinations

.62 Longitude determinations

.63 Azimuth determinations

.64 Effect of irregularities of Earth's surface on latitude, longitude and azimuth

.65 Effect of same on angles of triangle

.7 Gravity experiments and results

.71 Mathematical theory

.72 Pendulum apparatus

.73 Pendulum operations

.74 Corrections

.75 Reduction of results

.8 Map projections See 515.5 Spheric projections

.81 Prospectiv projections

.82 Orthomorfic projections

.83 Development projections

.84 Zenithal projections

.85 Equivalent projections

.9 Surveying

.91 Instruments and methods See 526.2

.92 Mesurement of distances

526.93 Mesurement of angles
.94 Mesurement of hights
.95 Leveling See 526.36–38
.96 Plotting
.97 Computation of areas
.98 Topografic drawing
.99 For special purposes: military, naval, railroad, mining, etc.

527 Navigation

.1 **Finding latitude at sea** See also 525.41
.2 **Finding longitude at sea** See also 525.46
.3 **Finding time at sea** See also 529.74
.4 **Sumner's method**
.5 **Great circle sailing**

528 Ephemerides Nautic almanacs

.1 **American**
.2 **English**
.3 **German**
.4 **French**
.5 **Italian**
.6 **Spanish**
.7 **Slavic**
.8 **Scandinavian**
.9 **Construction of ephemeris**

529 Chronology

.1 **Sidereal and solar day**
Apparent and mean time, equation of time, causes of inequality
2 **Solar year, months**
.3 **Calendars**; including early and Oriental
.4 Calendar of Julius Caesar
.5 Calendar of Gregory, 1582– Almanacs
.6 Ecclesiastic calendar: determination
For feasts, etc. and calendars themselvs, see 264.021, 264.031, etc.
.7 **Horology**
.71 Finding time by transit
.72 Finding by equal altitudes
.73 Finding by single altitude
.74 Finding by sextant See also 527.3
.75 Time systems, and standards
.76 Distribution of time
.77 Cosmic time
.78 Instruments for mesuring: dials, hourglasses, clocks watches, etc.
See 522.51 for Sidereal clocks and chronometers
See 681 for Clock and watch making

530 Physics

Like Science in general: viz, general works only are arranged
530.1 Philosofy .2 Compends, textbooks .3 Dictionaries .4 Essays, lectures, etc.
.5 Periodicals .6 Societies .7 Education, methods of teaching, experiments
.8 Physical units, mesuring instruments .9 History

531 Mechanics

.1 **Pure motion Kinematics**

.2 **Statics Grafic statics**

.21 Force and its mesure
.22 Composition of forces and motions
.23 Moments
.24 Parallel forces Center of gravity

.3 **Dynamics Kinetics**

.31 Rectilinear motion
.32 Vibration
.33 Undulation
.34 Rotation
.35 Centrifugal and centripetal force

.4 **Work Friction** See 621.89 Lubrication

.41 Unit of work
.42 Diagram of work
.43 Laws of friction Modulus of machines
.44 Sliding friction
.45 Rolling friction

.5 **Gravity**

.51 Law of universal gravitation
.52 Laws of falling bodies
.53 Pendulum
.54 Mass, density, etc.
.55 Projectils
.58 Apparatus for illustration

.6 **Conservation of energy.**

.7

.8 **Machines Transmission of force**

See also 621.8 Mechanism of transmission

.81 Lever and balance
.82 Wheel and axle
.83 Cord and catenary
.84 Pulley
.85 Inclined plane
.86 Wedge
.87 Screw
.88

.9 **Tables Problems Questions**

532 Liquids Hydrostatics Hydraulics

.1 **Properties of liquids Pressure**
.2 **Equilibrium of liquids**
.3 **Buoyant effects Floating bodies**
.4 **Specific gravity Hydrometer**
.5 **Liquids in motion Hydrodynamics**
.51 Theoretic flow
.52 Orifises, adjutages, fluid vein
.53 Weirs, overfalls
.54 Pipes, open channels, rivers
.55 Bends, valvs, sudden enlargements and contractions
.56 Efflux; variable pressure
.57 Hydrometry Velocity
.58 Impulse and resistance
.59 Theory of waves
.6 **Capillary attraction**
.7 **Osmose Absorption**
.8 **Applications Machines** See 621.2 Water engins

Except for libraries making Physics much more prominent than Useful arts, all the 'Applications' will be more useful under their proper heds in Useful arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division

.81 Hydraulic press See also 621.266
.82 Hydraulic engin See also 621.25
.83 Water ram See also 621.27
.84 Water wheels See also 621.21
.85 Water blast See also 621.269
.9 **Tables Problems Questions**

533 Gases Pneumatics

.1 **Properties of gases and vapors Adsorption**
.2 **Laws of compressibility**
.3 **Atmosphere**
.4 Barometer
.5 Air pump
.6 Aeronautics
.7 **Kinetic theory of gases**
.8 **Applications** See 621.6 Blowing and pumping engins

Preferably clast in Useful arts, see 532.8, note

.82 Manometer Pressure gages See 621.18 Steam generation
.83 Condensing pump
.84 Force pump
.85 Suction pump
.86 Diving bell
.87 Forge bellows
.88 Pneumatic dispatch
.9 **Tables Problems Questions**

534 Sound Acoustics

.1 **Theory Undulations**

.2 **Propagation of sound: velocity, diffraction**

.3 **Musical sound Tuning forks** See also 781.1 Theory of music

.4 **Analysis of sounds Resonators**

.5 **Superposition of vibrations**

.6 **Grafic representations**

.7 **Physiologic: ear and larynx**

For other relations see Ear, Larynx, in Relativ index following Tables

.8 **Applications** Preferably clast with topics elsewhere See 532.8, note

.81

.82

.83 Signals in navigation See also 654.9 Communication

.84 Applications to architecture

.85 Musical instruments See also 780 Music

.86 Phonograf

.9 **Tables Problems Questions**

535 Light Optics

.1 **Theory**

.2 **Propagation Velocity Mesurement of light**

.3 **Reflection Refraction Absorption**

See also 522.92 Astronomy

.4 **Dispersion Diffraction Interference**

.5 **Polarization Polariscope Double refraction**

.6 **Color**

.7 **Physiologic: eye**

Optical principles of sight. See also Eyes in Relativ index

.8 **Applications** Preferably clast with topics elsewhere See 532.8, note

.81 Lenses and prisms

.82 Microscopes and magnifiers See also 578 Microscopy

.83 Telescopes See also 522.2 Astronomy

.84 Spectroscopes and spectrum analysis

Most general number. See also Spectroscopy, Spectrum, in Relativ index for other relations and applications

.85 Photografy See also 770

.86 Other applications of lenses

.87 Mirrors and reflecting instruments

.88 Lighthouses See also 627.9 Harbor engineering; 656 Commerce

.89

.9 **Tables Problems Questions**

536 Heat

.1 **Theory Nature**
.2 **Communication**
.3 **Action of bodies on heat**
.31 Reflection
.32 Refraction
.33 Radiation
.34 Absorption
.35 Diathermancy
.4 **Effects Action of heat on bodies**
.41 Expansion
.42 Liquefaction
.43 Solidification
.44 Vaporization and condensation
.45 Incandescence
.46 Combustion Flame
.5 **Temperature** See also 551.52 Meteorology; 613.18 Hygiene
.51 Thermometry
.52 Pyrometry
.53 Electric methods of mesuring
.6 **Calorimetry**
.7 **Thermodynamics Mechanical equivalent**
.8 **Applications** Preferably go in Useful arts. See 532.8, note
.81 Steam engins See 621.1 Engineering
.82 Gas engins See 621.43 Engineering
.83 Heating See 697, 621.19, 628.8, 644
.84 Ventilation See 697, 622.4, 628.8
.9 **Tables Problems Questions**

537 Electricity

See also 621.3 Electric engineering

.1 **Theory Nature**
.2 **Static**
.21 Quantity, potential
.22 Conduction, distribution
.23 Machines
.24 Condensers
.25 Electrometers
.3
.4 **Atmospheric Lightning rods**
.5 **Dynamic**
.51 Theory of coils Constants
.52 Induction spark
.53 Induction spark in rarified gases
.6 **Electro dynamics**
.7 **Electric mesurements**

537.8 **Applications** Preferably clast in Useful arts. See 621.3, and 532.8, note
.81 Telegraf For telegraf business see 654
.82 Telefone Microfone
For telefone business see 654.6
.83 Dynamos Electric lighting
.84 Tranmission of power Storage
.85 Electrometallurgy
.86 Galvanometers Batteries Coils
.87 Medicin See also 615.84
.88 Electric signals See 654.9
.9 **Tables Problems Questions**

538 Magnetism

For Animal magnetism, Mesmerism, etc., see 134
.1 **Theory Properties of magnets Lines of force**
.2 **Communication Induction Touch**
.3 **Electromagnetism**
.4 Diamagnetism
.5
.6
.7 **Terrestrial magnetism**
.8 **Applied Magnetic machines**
.9 **Tables Problems Questions**

539 Molecular physics

.1 **Theory Molecular structure** Vortex rings
.2 **Properties of solids**
.3 **Elasticity Torsion**
.4 **Strength of materials**
See also 620.1 Engineering materials
.5 **Permanent displacement of molecules**
.51 Malleability
.52 Ductility
.53 Hardness
.54 Tempering
.6 **Intermolecular forces**
.7
.8
.9 **Tables Problems Questions**

540 Chemistry

Pure or theoretic chemistry
.1 Theories, alchemy, phlogiston .2 Compends .3 Dictionaries, cyclopedias .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods of teaching .8 Collectiv works .9 History

SUMMARY

541–542	**General chemistry**
541	Chemic theories
542	Operativ and experimental chemistry
543–545	**Analytic chemistry**
543	Analysis
544	Qualitativ analysis
545	Quantitativ analysis
546	**Inorganic chemistry**
547	**Organic chemistry**

REFERENCES

612.015	Physiologic chemistry	660	Chemic technology
615	Medical "	669	Metallurgy
616.076	Pathologic "	770	Photografy

541 Theoretic chemistry Physical chemistry

Modern chemic theories General properties of bodies from chemic point o view Composition Constitution Elements and compounds Affinity Fo-mu'as Nomenclature

.1

.2 Atomic theory

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.

See also physics, 532.4 Specific weights

.3 Physical chemistry

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electrochemistry

.31 Solid state

See also physics, 536.43 Solidification; 539.2 Properties of solids

.32 Liquid state

See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 Solution

.321 General

Surface tension, vapor tension, viscosity, capillarity

.325 Special types of liquids: gelatinous liquids

.326 Inorganic liquids

.327 Organic liquids

.33 Gaseous state

Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.44 Vaporization

541.34 Solute state Solubility

.341 General

Surface tension, viscosity, diffusion, osmosis, conductivity. See also 532.7 Osmose of liquids; 542.7 Dissolving

1 **Theories: kinetic, hydrate and dissociation**

2 **Laws Terminology**

.342 Solution pressure Solubility

Tables of solubility

.344 Solubility and solution of different forms

1 Solids 2 Liquids 3 Gases Absorption

.345 Solution types

2 **Colloid solutions Emulsions**

Including general discussion of colloids

.346 Solvents

.35 Photochemistry

Relation of light to chemic action, of polarized light to chemic structure, etc.

.36 Thermochemistry

Relationship of heat to chemic properties of bodies. Thermodynamics and energetics applied to chemistry. Relations between specific heat and chemic constitutions. Molecular heats; atomic heats; latent heats of physical, allotropic, and chemic transformations. Principle of initial and final phases. Study of changes of phase. Melting points and boiling points. Liberation and absorption of heat in reactions. Exothermic and endothermic reactions. Variation with temperature of the quantity of heat used in transformations. Principle of maximum work

.37 Electrochemistry

.378 Magnetochemistry

.38 Radiochemistry

Chemistry of radioactiv substances

.39 Chemic dynamics, statics and equilibrium Affinity

Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics Variation of affinity with physical conditions. Valence. Combinations. Unlimited and limited decomposition. Dissociation, efflorescence, limits of dissociation and maximum dissociation. Combustion

.4 Various types of compounds

Acids, bases, salts, alloys

.5 Molecular types

.6 Compound radicals

Stereochemistry Formulas of structure

.7 Allotropy

Isomerism Amorfous and crystallin states Tautomerism Polymerism
Class here material on structure not included in 541.6

.9 Other general subjects

Classification Nomenclature Notation Formulas Stoichiometry
Tables Periodic law

542 Practical and experimental chemistry

Manipulations Chemic operations For analyses see 543–545

.1 **Laboratories**

Interior construction and installation General arrangements For architecture see 727.5

.2 **Apparatus and manipulations** For special apparatus see 542.3–.9

.21 Manipulations Arrangements Procedure

.22 Preparation of substances

Mechanic separation: trituration, pulverization, porphyrization; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation

.23 Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

.231 Glass and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing

5 **Glass manipulation: blowing, grinding**

232 Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

.233 Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

.24 Supports Fixt, adjustable, wood. Triangles, tripods, clamps

.25 Stoppers Glass, cork, rubber Corkborers

.26 Rubber tubing Luting and cements

.29 Other appliances

.3 **Mesuring apparatus**

.32 Determination of weights and density

Balances and weights Descriptions and directions for use

.33 Specific gravity apparatus Class preferably in 532.4

.35 Determination of volume

Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

.4 **Heating Distillation**

See also 536.5 Mesurement and regulation of heat; 542.53 Blowpiping

.41 General

.42 Heating with coal

Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast
Tube furnaces for organic analysis

.43 Heating with liquid fuels, etc. Lamps; special burners

.44 Heating with gas

Coal gas, carburetted air, acetylene, etc.
Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

.46 Indirect heating

Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes

.47 Electric heating

Heaters, muffles and furnaces; kryptol furnaces
See also 542.8 Electric and galvanic manipulations

.48 Operations

Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus, alembics or stills. Deflegmators. Vacuum operations
Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77

.49 Other heating operations

542.5 Flames Blowpipes

See also 544.2 Dry methods of analysis; 669.9 Assaying

.51 Flame

Nature of flame; candle flame; oxidizing and reducing flames

.52 Coloration of flame

Beads, colord beads Composit flames

.53 Blowpipes

Varieties of blowpipes and how to use them

For applications see Blowpiping in Relativ index following Tables

.6 Aqueous and liquid treatment

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfid, hydrocarbons, etc.

.61 Dissolving Solution

Solvents, maceration, digestion, decoction, lixiviation

.62 Determination of solubility Supersaturation

Supersaturated solution

.63 Diffusion

Lowering the solidification point or surfusion

.64 Dialysis Dializers

See also qualitativ analysis 544.5 Dialysis

.65 Solidification

Precipitation, crystallization, crystallizers

.66 Decantation

Decantation funnels, Florentin receivers, sifons, pipets

.67 Filtration and filters

Filtration with textils, with paper, thru cotton, asbestos, powders, etc.

Hot filtration Filtration in seald vessels, by suction, by compression

Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

.7 Gas manipulation

See also 545.7 Eudiometry

.71 General

.72 Gas production

.73 Gas collecting and decanting

Pneumatic trof, gas sampling-tube, gas pipets; displacement and decanting

.74 Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas mesurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers; manometers; vacuum regulators; trompes

See also physics, 533.5 Air pumps

.78 Gas compression

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

542.8 **Electric and galvanic manipulations**

See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 **Other operations**

Attacks by acids and gases: oxidations, reductions etc

543-545 Analytic chemistry

543 Analysis

Divided by material analyzed, whether qualitativly or quantitativly; i.e. substance takes precedence of process. Class in 543 general works covering both qualitativ and quantitativ analysis

See also 614.3 Adulterations

.1 **Analysis of food and drink**

See also 613.2 Hygiene, 612.39 Nutrition

.2 Dairy products Milk

See also agriculture, 637 Dairy products

.3 Water

See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

.4 **Analysis of drugs and medicins**

See also 614.35 Inspection of drugs; 615 Medicin

.5 Poisons

See also 615.9 Toxicology

.6 **Analysis of rocks and ores**

See also 549 Mineralogy, 669.9 Assaying, 631 Agricultural chemistry

.7 **Analysis of inorganic products in general**

For general works and special matter not provided for in previous subdivisions of 543

.8 **Analysis of organic products in general**

For general works and special matter not provided for in previous subdivisions of 543

.9 Analysis of organic products of animal origin

For general works and special matter not provided for in previous subdivisions of 543 See also 577 Biology

544 Qualitativ analysis

Determination of chemic elements of substances General processes and methods

.1 **Wet method**

.11 Reagents

.12 Determination of bases

.13 Determination of acids

.2 **Dry method**

See also 669.9 Assaying
See also 542.53 Manipulation, 549.1 Mineralogy

.4 **Gas analysis Reactions**

Identifying an isolated gas Analysis of gaseous mixtures See also 545.7 Eudiometry

.5 **Dialysis**

For technic see 542.64; for electric dialysis see 542.8

.6 **Spectrum analysis**

See also physics, 535.84 Spectrum analysis

.7 **Polariscopic analysis**

See also physics, 535.5 Polarization

.8 **Microscopic examinations**

.9 **Other methods**

Electro analysis

.92 Capillary analysis

545 Quantitativ analysis

.1 **Gravimetric**

Analysis by weighing, sampletaking

.2 **Wet method**

Titration solution, alkalimetry, acidimetry

.3 **Electric methods**

See also physics, 537.85 Electrometallurgy
For galvanoplastics see 671

.311 Constant current analysis

.312 Constant voltage analysis

.36 Catalytic analysis

.4 **Dry method**

Quantitativ analyses with blowpipe, cupellation etc.
See also 669.9 Assaying

.5 **Titrometric methods in general**

.6 Volumetric analysis of liquids

See also 542.3 Mesuring apparatus

.7 Volumetric analysis of gases

Eudiometry and eudiometers; gas burets, absorption pipets
See also 544.4 Gas analysis

.8 **Other methods**

Colorimetric Polarimetric Refractometric

.9 Synthesis

General processes

.97 **Electric synthesis**

546-547 Inorganic and organic chemistry

546 Inorganic chemistry

.1 Nonmetallic elements
.11 Hydrogen
.12 Halogen group
.13 Chlorin
.14 Bromin
.15 Iodin
.161 Fluorin
.17 Nitrogen group **Nitrogen**
.18 Phosphorus
.191 Arsenic
.2 Oxygen group
.21 Oxygen
.22 Sulfur
.23 Selenium
.241 Tellurium
.25 Carbon group
.26 Carbon
.27 Boron
.28 Silicon
.29 Helium group
.291 Helium
.292 Neon
.293 Argon
.294 Krypton
.295 Xenon
.3 Metals
.31 Alkali group
.32 Potassium
.33 Sodium
.34 Lithium
.35 Rubidium
.36 Caesium
.37
.38
.39
.4 Alkalin earths
Calcium and magnesium groups considerd together
.41 Calcium
.42 Strontium
.43 Barium
.432 Radium See also 541.3
.44 Magnesium group
.45 Beryllium or glucinum
.46 Magnesium
.47 Zinc
.48 Cadmium
.49

546.5 **Led and silver group**
.51 Led
.52 Thallium
.55 **Silver group**
.56 Copper
.57 Silver
.58 Mercury
.59
.6 **Cerium group** **Rare earths**
.61 Yttrium
.62 Cerium
.63 Lanthanum
.64 Didymium
.642 Praseodymium
.643 Neodymium
.65 Erbium
.652 Ytterbium
.653 Terbium
.66 Aluminum
.67 Indium
.68 Gallium
.69 **Other metals of rare earths**
.691 Scandium
.692 Samarium or decipium
.694 Gadolinium
.695 Germanium
.696 Europium
.697 Thulium
.7 **Iron group**
Iron and chromium groups considerd together
.71 Manganese
.72 Iron
.73 Cobalt
.741 Nickel
.75 **Chromium group**
.76 Chromium
.77 Molybdenum
.78 Tungsten or wolfram
.791 Uranium See also 541.38
.8 **Tin group**
Tin and vanadium groups considerd together
.81 Tin
.82 Titanium
.83 Zirconium
.841 Thorium See also 541.38
.842 Actinium See also 541.38
.85 **Vanadium group**
.851 Vanadium
.86 Antimony
.87 Bismuth
.88 Tantalum
.891 Niobium or columbium
.892 Polonium See also 541.38

546.9 **Platinum group**
.91 Gold
.92 Platinum
.93 Iridium
.94 Osmium
.95 **Ruthenium group**
.96 Ruthenium
.97 Rhodium
.98 Palladium
.99 **False and putativ elements**
Arrange alfabeticly

547 Organic chemistry

.1 **Cyanogen and its compounds**
.2 **Hydrocarbons Fatty series**
For occurrence as minerals see 549.8
.21 Paraffins
.22 Olefins
.23 Acetylenes
.24 Valylene Dipropargyl, etc.
.25 **Aromatic series**
.26 Benzenes
.27 Diphenyl group
.28 Naphthalene Anthracene Phenanthrene
.29 Higher series
The 7 heds 547.3–547.9 are subdivided like 547.2
.3 **Alcohols Phenols**
.4 **Ethers: simple, compound; haloid**
.5 **Aldehydes**
.6 **Ketones Quinones**
.7 **Acids: acid halids, acid anhydrids, sulfo-acids**
.8 **Nitroderivates: amins, compound ammoniums, amids, amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies, diazo-bodies**
.9 **Compounds with metals**

548 Crystallografy

General; phenomena of a special mineral belong with that mineral; e. g. cleavage of borates 549.73

.1 Systems of crystallization
.2 Twin crystals Crystallin aggregations
.3 Cleavage Isomorfism Polymorfism
.4 Irregularities Internal imperfections
.5 Formation and growth of crystals
.6 Pseudomorfs
.7 Mathematic: mesurement of angles
.8 Physical
.9 Optical

549 Mineralogy

.01 Philosofy, classification .02 Compends .03 Dictionaries .04 Essays, papers, etc. .05 Periodicals .06 Societies .07 Study and teaching, museums .08 Collectiv works .09 History

.1 Determinativ Blowpiping

See also 543.6 Methods of analysis of rocks and ores
See 542.53 Blowpipes and their manipulation. For other relations see Blowpiping in Relativ index following Tables

.2 Nativ elements
.3 Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids
.4 Compounds of chlorin, bromin, iodin, and fluorin
.5 Oxygen compounds: oxids
.6 Silicates
.61 Anhydrous
.65 Hydrous
.7 Other ternary oxygen compounds
.71 Tantalates Columbates
.72 Phosphates Arsenates Vanadates Antimonates Nitrates
.73 Borates
.74 Tungstates Molybdates Chromates
.75 Anhydrous sulfates
.76 Hydrous sulfates
.77 Tellurates
.78 Carbonates
.79 Oxalates
.8 Hydrocarbons

Occurrence as minerals. For chemistry of hydrocarbons see 547.2; for economic geology see 553.2

.9 Geografic distribution

550 Geology

550.1 Philosofy, theories, geologic time .2 Compends .3 Dictionaries .4 Essays papers, tracts, letters .5 Periodicals .6 Societies .7 Study and teaching, museums .8 Collectiv works .9 History

551 Physical and dynamic geology

Including geophysics (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523

.1 Structure of earth as a whole
- .11 Interior of earth
  - .12 Internal heat
- .13 Earth's crust
- .14 Conductivity of rocks

.2 Seismology
- .21 Volcanoes
- .22 Earthquakes
- .23 Hot springs, geysers
- .24 Oscillations of the earth's crust

.3 Erosion and deposition
- .31 Glaciers and glacial phenomena
  - .32 Moraines
  - .33 Transported materials, till
- .34 Icebergs
- .35 Aqueous erosion
  - .36 Coast changes
- .37 Aerial erosion

.4 Surface features of the earth

Physical geografy

- .41 Continents
- .42 Ilands
- .43 Mountains Valleys Orology
- .44 Caves
- .45 Plains
- .46 Oceans
  - .47 Ocean currents
- .48 Rivers Lakes
- .49 Springs Wells Ground water

Division of Oceans for use under .46 and .47

1 Atlantic North sea Baltic
2 Mediterranean Black sea
3 Gulf of Mexico Caribbean
4 Southern Atlantic
5 Pacific
6 Eastern Pacific or American coast
7 Indian Bay of Bengal Red sea
8 Arctic
9 Antarctic

.5 Meteorology Climate
- .51 Atmosferic currents Winds
- .52 Thermometry, heat

  For other relations see Heat, Temperature, in Relativ index following Tables
- .53 Hypsometry, elevations See 526.36–8 for methods
- .54 Barometry, pressure
- .55 Storms

  See also 537.4 Atmosferic electricity
- .57 Moisture: rainfall, flow of streams, floods
- .58 Prairies, forests, and deserts

551.6 **Metamorfism**
.7 **Stratigrafic geology**
.71 Archean
.72 Primary, paleozoic, Cambrian
.73 Silurian
.731 **Lower Silurian**
.732 **Upper Silurian**
.74 Devonian Old red sandstone
.75 Carboniferous
.76 Secondary, mesozoic, triassic and Jurassic: lias, oolite
.77 Cretaceous
.78 Tertiary, cenozoic
.781 Eocene, oligocene
.782 Miocene
.783 Pliocene
.79 Quaternary Postpliocene Glacial
.791 Recent
.8 **Structural geology**
.81 Stratification
.82 Curvature and contortion
.83 Ripple marks and sun cracks
.84 Joints Cleavage Polarity in rocks
.85 Dip Outcrop Strike
.86 Anticlinal Synclinal
.87 Faults and folds Dislocations
.88 Veins Dykes Necks Bosses
.89
.9 **Agents of geologic work**
.91 Frost
.92 Water
.93 Atmosphere
.94 Geochemistry
Chemic changes: heat. See also note to 551
.95 Animals
.96 Coral reefs
.97 Plants
.98 Segregation and concretion
.99 Other agents

552 Lithology Petrografy Petrology

.1	**Igneous rocks**
.2	Volcanic rocks
.21	Lavas Scoria
.22	Volcanic ashes Volcanic tufa Tuff
.23	Obsidian Pumis Pitchstone
.24	Trachyte
.25	Rhyolite
.26	Andesite Dacite Phonolite
.27	Felsites
.28	Basalt
.29	Other volcanic rocks
.3	Plutonic rocks
.31	Porphyry Porphyrite
.32	Syenite
.33	Granit
.34	Diabase and gabbro
.35	Dolerite
.36	Diorite
.37	Norite
.38	Peridotite
.39	Other Plutonic rocks
.4	**Metamorfic rocks**
.41	Granits and syenites
.42	Gneiss
.43	Schists
.44	Slates Argillite Phyllite
.45	Quartzite Novaculite Itacolumite
.46	Marble Crystallin limestone
.47	Serpentine
.48	Chrysolitic rocks
.49	Other metamorfic rocks
.5	**Sedimentary rocks**
.51	Sandstone Conglomerate Sand Gravel
.52	Shale Clay Silt
.53	Gypsum Salt
.54	Limestone Marl Ooze
.55	Dolomite
.56	Oolite
.57	Infusorial or diatomaceous earth
.58	Glauconite Greensand
.59	Other sedimentary rocks
.6	**Meteorites**
.7	**Decay of rocks**

553.8 **Microscopic petrografy**
.81 Determination of rock minerals
.82 Rock structure

553 Economic geology

See also 622 Mining engineering

.1 **Ore deposits**
.11 Formation and structure
.12 Classification
.13 Superficial: placers
.14 Stratified: beds, etc.
.15 Unstratified
.16 **Disseminated thru eruptiv rocks**
.17 **Stockwerks Fahlbands Contacts**
.18 **Chambers and pockets Impregnations**
.19 **Mineral veins**
.2 **Carbon series**
.21 Peat
.22 Lignite and jet
.23 Cannel coal Bituminous shale
.24 Bituminous and semibituminous coals
.25 Anthracite and grafitic anthracite
.26 Grafite Plumbago
.27 Asfalt and asfaltic coals Ozocerite
.28 Petroleum Natural gas
.29 Fossil gums and resins

While the history of all other products goes in 553, history of metals is more useful in 669, Metallurgy

.3 **Ores of iron**
.4 **Ores of metals other than iron**
.41 Ores of gold
.42 Ores of silver
.43 Ores of copper
.44 Ores of led
.45 Ores of zinc and tin Mercury
.46 Ores of manganese and chromium
.47 Ores of antimony and arsenic
.48 Ores of nickel and cobalt
.49 Other metallic ores
.5 **Bilding stones**
.51 Marbles and limestones
.52 Granits and syenites
.53 Sandstones
.54 Slates
.55 Serpentines Soapstones
.56 Porphyries
.57 Trap
.58 Tufa Peperino
.59 Other bilding stones

553.6 **Earthy economic minerals**
.61 Fire clays Brick clays Potter's clays
.62 Sands
.63 Rock salt Gypsum
.64 Phosphates Apatite Guano See also 631,85
.65 Emery Corundum
.66 Hevy spar Sulfur
.67 Asbestos, etc.
.68 Limes and mineral cements
.69 Other earthy economic minerals
.7 **Mineral waters**
Divide general works with 0 geograficly like 930–999; e.g Mineral waters of Germanv. 553.7043
.71 Alkalin
.72 Salin
.73 Chalybeate, ironbearing
.74 Sulfuric
.75 Calcic
See also 551.23
.8 **Gems Ornamental stones**
.9 **Other economic minerals**

554 Geology of Europe 554-559 subdivided by countries like 940-999
555 Geology of Asia
556 Geology of Africa
557 Geology of North America
558 Geology of South America
559 Geology of Oceanica Polar regions

560 **Paleontology** Use form divisions as in 550 and divide .9 geograficly like 930–999; e. g. Paleontology of England is 560.942
561 Plants 561 is subdivided like Botany, 580
562 Invertebrates 562–569 is subdivided like Zoology, 592–599
563 Protozoa Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes Batrachia
568 Reptils Birds
569 Mammals

570 Biology Archeology

570.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lecturas, etc.
.5 Periodicals .6 Societies .7 Study and teaching, museums; nature study
.8 Collectiv works .9 History

571 Prehistoric archeology

For Customs, see 390 For Archeology of special countries, see 913

.1 **Paleolithic, or early stone age**
.11 Drift remains
.12 Cave men
.13 Remains of animals Shells
.14 Chipt stones
.15 Flint flakes Arrow heds Knives, etc.
.16 Other stone remains
.19 Other remains
.2 **Neolithic, or late stone age**
.21 Stone quarries
.22
.23 Remains of animals
.24 Polisht stones
.25 Sharpend stones: celts, tools, wepons
.26 Perforated stones: spindles, net sinkers, pipes
.27 Hollowd stones: mortars, cups, food vessels
.28 Other stone remains
.29 Other remains
.3 **Bronze age**
.31 Ancient copper and tin mining
.34 Bronze remains
.35 Tools Wepons, etc.
.37 Cups Vessels
.39 Other remains
.4 **Iron age**
.5 **Other remains**
.51 Implements of wood
.52 Implements of bone
.53 Basket work
.54 Textil fabrics
.55 Pottery
.56 Glass
.6
.7 **Rudiments of art Ornaments**
.71 Drawings
.72 Paint
.73 Sculptures
.74 Beads

571.8 **Dwellings**
- .81 Natural caves
- .82 Earth houses Pit dwellings Weems
- .83 Lake dwellings Crannoges
- .84 Cliff dwellings
- .85 Pueblos
- .86 Tents as dwellings
- .9 **Mounds and monuments**
- .91 Mounds and mound bilders
- .92 Grave mounds
- .93 Kitchen middens Shell banks
- .94 Monoliths Cromlechs
- .95 Circles Labyrinths
- .96 Cairns
- .97
- .98
- .99

572 Ethnology ~~Anthropology~~

See also 136.4 Mental race characteristics

- .1 **Unity of the human race**
- .2 **Diversity of races**
- .3 **Migrations of men**
- .4 **Original home of man: Eden, Atlantis, etc.**
- .5
- .6
- .7 **Savages: races divided by practises**

  Class description of savages of special country in 914–919; e. g. Australian bushmen 919.4
- .8 **Races divided by language like 400**
- .9 **Races divided by countries like 930–999**

  Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

Anthropology – 573 Natural history of man Somatology

- .1 **Man's place in nature**
- .2 **Origin of man**
- .3 **Antiquity of man**
- .4 **Influence of climate and surroundings**
- .5 **Color in man**
- .6 **Anthropometry**
- .7 **Craniology**
- .8 **Dwarfs and giants**
- .9 **Monstrosities**

  See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities

574 Homologies

575 Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.1 **Heredity**

For other relations see Heredity in Relativ index following Tables

.2 **Variation** See also 591.15 Physiologic zoology

.3 **Environment** See also 136.2 Mental; 573.4

.4 **Natural selection** **Survival of the fittest**

.5 **Sexual selection**

.6 **Development**

.7 **Degeneration**

.8 **Origin of species**

.9 **Origin of sexes** See also 591.36 Embryology

576 Origin and beginnings of life

[576-577 are undergoing revision that will change some numbers and greatly enlarge them in a late edition]

.1 **Spontaneous generation**

.2 **Protoplasm** **Bioplasm**

.3 **Cells**

.4 **Beginnings of motion and sensation**

.5

.6

577 Properties of living matter

.1 **Chemic: difference between organic and inorganic**

.2 **Life: difference between ded and living matter**

.3 **Difference between vital and physical phenomena**

.4 **Conditions of life: moisture, temperature**

.5 **Difference between plants and animals**

.6 **Vital force**

.7 **Deth** See also 612.013

.8 **Sex in nature**

.9

578 Microscopy See also 535.82 Optics

.1 **Varieties of microscopes**

.2 **Optic parts**

.3 **Mechanical parts**

.4 **Accessory apparatus and management of microscope**

.5 Illuminating apparatus

.6 **Preparation and mounting of objects**

.7 **Special preparation and study of inorganic material**

.8 " **botanic material** See 581.8 Histology

.9 " **zoologic material** " 591.8

579 Collectors manuals

.1 **Preparing skeletons**

.2 **Preservativs and hardening fluids**

.3 **Injections**

.4 **Taxidermy**

.5 **Mounting specimens**

.6 **Collecting**

.611 Alluring; bait, light, etc.

.612 Hunting; nets, collecting bottle, etc.

.613 Killing

.614 Exchange Purchase

.615 Rearing

.616 Transporting

.7 **Arrangement of specimens in museums**

.71 Cabinets .72 Labels

.8 **Preservation of specimens**

.81 Museum pests .82 Pestifuges .83 Prevention of moisture .84 Retention of colors

.9

580 Botany

580.1 Philosofy, classification, nomenclature .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

581 Physiologic and structural botany

Subdivided where wished like 591 NB

.1 **Physiology**

.2 **Pathology Teratology**

.21 Diseases

.22 Teratology

.23 Parasites

.3 **Embryology Germination**

.4 **Morfology Comparativ anatomy**

.5 **Habits**

.6 **Economic**

.7 **Organografy Descriptiv anatomy**

.8 **Histology** See 578.8

.9 Geografic

.91 Distribution of plants

Subdivide .93–99 like 930–999 Use .92 for ocean, marine flo a

This Geografic classification is to be used only for general works and cross references 'Flora of North America' is put 581.97; but 'North American cryptogams' is clast 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject.

General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590

In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are alredy given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are groupt together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assignd to Invertebrate zoology as more important. Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.197, i. e. the first 2 Botany figures, 58, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 591 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

582 Phanerogamia

See also 715 Trees; 634.9 Forestry

The subsections below are taken from the recognized authority, Bentham and Hooker's *Genera plantarum*

583 Dicotyledonæ

.1 **Polypetalæ**

.11 **Ranales**

.111 Ranunculaceæ

.112 Dilleniaceæ

113 Calycanthaceæ

.114 Magnoliaceæ

.115 Anonaceæ

.116 Menispermaceæ

.117 Berberideæ

.118 Nymphæaceæ

583.12	**Parietales**
.121	Sarraceniaceæ
.122	Papaveraceæ
.123	Cruciferæ
.131	Capparideæ
.133	Resedaceæ
.134	Cistineæ
.135	Violarieæ
.137	Canellaceæ
.138	Bixineæ
.14	**Polygalineæ**
.141	Pittosporeæ
.142	Tremandreæ
.143	Polygaleæ
.145	Vochysiaceæ
.15	**Caryophyllineæ**
.151	Frankeniaceæ
.152	Caryophylleæ
.153	Sileneæ
.154	Alsineæ
.155	Polycarpeæ
.156	Portulaceæ
.158	Tamariscineæ
.16	**Guttiferales**
.161	Elatineæ
.162	Hypericineæ
.163	Guttiferæ
.166	Ternstrœmiaceæ
.167	Dipterocarpeæ
.168	Chlænaceæ
.17	**Malvales** **Malvaceæ**
.18	Sterculiaceæ
.19	Tiliaceæ
.21	**Geraniales**
.211	Lineæ
.213	Humiriaceæ
.214	Malpighiaceæ
.221	Zygophylleæ
.223	Geraniaceæ
.23	Rutaceæ
.241	Simarubeæ
.245	Ochnaceæ
.247	Burseraceæ
.251	Meliaceæ
.255	Chailletiaceæ

583.26	**Olacales**
.261	Olacineæ
.269	Ilicineæ
.27	**Celastrales**
.271	Celastrineæ
.274	Stackhousieæ
.275	Rhamneæ
.279	Ampelideæ
.28	**Sapindales**
.281	Sapindaceæ
.291	Sabiaceæ
.292	Anacardiaceæ
.297	**Anomola**
.298	Coriarieæ
.299	Moringeæ
.3	**Rosales**
.31	Connaraceæ
.32	Leguminosæ
.37	Rosaceæ
.38	Saxifrageæ
.39	Crassulaceæ
.393	Droseraceæ
.394	Hamamelideæ
.396	Bruniaceæ
.398	Halorageæ
.4	**Myrtales**
.411	Rhizophoreæ
.414	Combretaceæ
.42	Myrtaceæ
.43	Melastomaceæ
.441	Lythrarieæ
.445	Onagrarieæ, œnotheras
.45	**Passiflorales**
.451	Samydaceæ
.453	Loaseæ
.455	Turneraceæ
.456	Passifloreæ
.461	Cucurbiyaceæ
.468	Begoniaceæ
.469	Datisceæ
.47	**Ficoidales**
.471	Cacteæ
.475	Ficoideæ
.48	**Umbellales**
.481	Umbelliferæ
.491	Araliaceæ
.497	Cornaceæ

583.5 Gamopetalæ

.51	**Rubiales**	Caprifoliaceæ
.52	Rubiaceæ	
.53	**Asterales**	
.531	Valerianeæ	
.541	Dipsaceæ	
.546	Calysereæ	
.55	Compositæ	
.57	**Campanales**	Stylidieæ
.58	Goodenovieæ	
.59	Campanulaceæ	
.6	**Ericales**	
.61	Vacciniaceæ	
.62	Ericaceæ	
.63	Monotropeæ	
.64	Epacrideæ	
.65	Diapensiaceæ	
.66	Lennoaceæ	
.67	**Primulales**	
.671	Plumbagineæ	
.672	Primulaceæ	
.677	Myrsineæ	
.68	**Ebenales**	
.681	Sapotaceæ	
.685	Ebenaceæ	
.686	Styraceæ	
.7	**Gentianales**	
.71	Oleaceæ	
.716	Salvadoraceæ	
.72	Apocynaceæ	
.73	Asclepiadeæ	
.74	Loganiaceæ	
.75	Gentianeæ	
.76	**Polemoniales**	
.761	Polemoniaceæ	
.764	Hydrophyllaceæ	
.77	Boragineæ	
.78	Convolvulaceæ	
.79	Solanaceæ	
.8	**Personales**	
.81	Scrophularineæ	
.821	Orobanchaceæ	
.825	Lentibularieæ	
.829	Columelliaceæ	
.83	Gesneraceæ	
.84	Bignoniaceæ	
.85	Pedalineæ	
.86	Acanthaceæ	
.87	**Lamiales**	
.871	Myoporineæ	
.876	Selagineæ	
.88	Verbenaceæ	
.891	Labiatæ	
.899	**Ordo anomalus**	Plantagineæ

583.9 **Apetalæ**
.91 **Curvembryeæ**
.911 Nyctagineæ
.912 Illecebraceæ
.913 Amarantaceæ
.914 Chenopodiaceæ
.915 Phytolaccaceæ
.916 Batideæ
.917 Polygonaceæ
.92 **Multiovulatæ aquaticæ**
.921 Podostemaceæ
.922 **Multiovulatæ terrestres** Nepenthaceæ
.923 Cytinaceæ
.924 Aristolochiaceæ
.925 **Micrembryeæ** Piperaceæ
.926 Chloranthaceæ
.927 Myristiceæ
.928 Monimiaceæ
.93 **Daphnales**
.931 Laurineæ
.932 Proteaceæ
.933 Thymelæaceæ
.934 Penæaceæ
.935 Elæagnaceæ
.94 **Achlamydosporeæ**
.941 Loranthaceæ
.943 Santalaceæ
.947 Balanophoreæ
.95 **Unisexuales**
.951 Euphorbiaceæ
.961 Balanopseæ
.962 Urticaceæ
.971 Platanaceæ
.972 Leitnerieæ
.973 Juglandeæ
.974 Myricaceæ
.975 Casuarineæ
.976 Cupuliferæ
.98 **Anomali**
.981 Salicineæ
.983 Lacistemaceæ
.984 Empetraceæ
.987 Ceratophylleæ

584 Monocotyledonæ
.1 **Microspermeæ**
.11 Hydrocharideæ
.13 Burmanniaceæ
.15 Orchideæ

584.2 **Epigyneæ**
.21 Scitamineæ
.22 Bromeliaceæ
.23 Hæmodoraceæ
.24 Irideæ
.25 Amaryllideæ
.26 Taccaceæ
.27 Dioscoreaceæ
.3 **Coronarieæ**
.31 Roxburghiaceæ
.32 Liliaceæ
.34 Pontederiaceæ
.35 Philydraceæ
.36 Xyrideæ
.37 Mayaceæ
.38 Commelinaceæ
.39 Rapateaceæ
.4 **Calycineæ**
.41 Flagellarieæ
.45 Juncaceæ
.5 Palmæ
.6 **Nudifloreæ**
.61 Pandaneæ
.62 Cyclanthaceæ
.63 Typhaceæ
.64 Aroideæ
.68 Lemnaceæ
.7 **Apocarpeæ**
.71 Triurideæ
.72 Alismaceæ
.74 Naiadaceæ
.8 **Glumaceæ**
.81 Eriocauleæ
.82 Centrolepideæ
.83 Restiaceæ
84 Cyperaceæ
9 Gramineæ

585 Gymnospermæ
.1 **Gnetaceæ**
.2 **Coniferæ**
.9 **Cycadaceæ**

586 Cryptogamia

587 Pteridophyta
.1 **Isoeteæ**
.2 **Equisetæ**
.3 **Filicinæ**
.9 **Lycopodinæ**

588 Bryophyta

.1 **Sphagna**
.2 **Musci**
.3 **Hepaticæ**
.4 **Characeæ**

589 Thallophyta

.1 **Lichenes**
.11 **Basidiolichenes**
.15 **Ascolichenes**
.16 Angiocarpæ
.17 Gymnocarpæ
.18 Gelatinosæ
.19 Byssaceæ
.2 **Fungi**
.21 **Carposporeæ**
.22 Basidiomycetes
.221 Gasteromycetes
.222 Hymenomycetes
.224 Tremellinæ
.225 Uredineæ
.227 Ustilagineæ
.229 Entomophthoreæ
.23 Ascomycetes
.231 Tuberaceæ
.233 Discomycetes
.235 Pyrenomycetes
.238 Gymnoasceæ
.24 **Oosporeæ**
.25 Peronosporeæ
.26 Saprolegnieæ
.27 **Zygosporeæ**
.28 Zygomycetes
.29 Myxomycetes, mycetozoa
.3 **Algæ**
.4 **Carposporeæ**
.41 Florideæ
.47 Coleochaeteæ
.5 **Oosporeæ**
.6 **Zygosporeæ**
.61 Conjugateæ
.67 Zoosporeæ
.7 **Protophyta**
.8 **Chlorophyllaceæ**
.9 **Achlorophyllaceæ**
.91 Saccharomycetes Yeast
.95 Schizomycetes Bacteria Microbes

For other relations see Bacteria in Relativ index following Tables

590 Zoology

590.1 Philosofy, classification .2 Compends .3 Dictionaries .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Study and teaching, zoologic gardens, aquaria, museums .8 Collectiv works .9 History

591 Physiologic zoology

.1 **Physiology**
- .11 Circulation
- .12 Respiration
  - .121 Nature
  - .122 Dermal
  - .123 Aquivascular
  - .125 Branchial
  - .126 Tracheal
  - .127 Pulmonary
  - .129 Exhalation of aqueous vapor
- .13 Nutrition
  - .131 Acquisition of food
  - .132 Digestion of food
  - .133 Assimilation of food
  - .134 Growth
  - .135 Development
  - .136 Repair of waste
  - .137 Production of organic material
  - .138 Conditions of nutritiv activity
  - .139 Longevity, vitality
- .14 Secretion and excretion
  - .141 Mucous and sebaceous
  - .142 Sericeous
  - .143 Digestiv: salivary, gastric, pancreatic
  - .144 Odoriferous, sweet, etc.
  - .145 Poisonous, gall formation, caprification
  - .146 Mammary, spermatic
  - .147 Lacrimal
  - .148 Biliary
  - .149 Urinary and fecal
- .15 Variation See also 575.2 Evolution
  - .151 Polymorfic
  - .152 Geografic
  - .153 Heterofagic
  - .154 Polygoneutic
  - .155 Mimetic
  - .156 Sexual
  - .157 Colorational
  - .158 Hybrids
  - .159 Monstrosities

591.16 Generation
.161 Abiogenesis
.162 Parthenogenesis, neuters
.163 Metagenesis, pedogenesis, nurses
.165 Fission and gemmation
.166 Fecundation
.167 Hermaphrodites
.168 Vivipara
.169 Superfetation
.17 Histogenesis
.171 Development of sperm cells
.172 Development of germ cells, micropyle
.179 Reparation of wounds
.18 Nervous functions and sensation
.19 Physiologic chemistry
.2 Pathology
.3 Embryology
.33 Development of embryo
.34 Metamorphosis, larva, pupa, molting
.35 Hypermetamorphosis
.36 Production of sexes
See also 575.9 Origin of sexes
.4 Morfology Comparativ anatomy Homologies
.41 Circulatory organs
.42 Respiratory organs
.43 Nutritory organs
.44 Secretory and excretory organs
.45
.46 Generatory organs
.47 Motory organs
.48 Nervous system
.49 Integument Dermoskeleton Skeleton
.5 Habits and behavior
Including popular books; animal stories, except fiction
.51 Instinct Reason
.52 Abode Migration
.53 Food
.54 Seasons Hibernation
.55 Sociability
.56 Philoprogenitivness Breeding
.57 Means of protection Fascination
.58
.59 Other habits

591.6 **Economic**
.61 Usefulness
.62 In nature
.63 As food and medicin for man
.64 In chemistry and manufactures
.65 Noxiousness
.66 Offensiv animals
.67 Animals causing diseases [substances
.68 Injuring vegetable and animal products and inorganic
.69 Injuring living plants and animals Parasites
.7 Organografy Descriptiv anatomy
Subdivided like 591.4 Morfology
.8 Histology See also 578.9 Microscopic zoology
.9 Geografic distribution of animals
Subdivide like 930–999, using .92 for ocean, marine fauna

592 Invertebrates

593 Protozoans Radiates

.1 Protozoans
.11 Rhizopoda
.12 Foraminifera
.13 Heliozoa
.14 Radiolaria Polycystina
.15 Infusoria
.16 Flagellata
.17 Ciliata
.18
.19 Gregarinidæ
.2 Radiates
.3 Cœlenterata Acalepha (old use of term, now limited to 593.73)
.4 Sponges Porifera Spongia
.5 Cnidaria
.6 Actinozoa Polyps Corals and sea anemones
.61 Rugosa Tetracorolla
.62 Alcyonaria Octocorolla
.63 Zoantharia Hexacorolla
.64 Antipatharia
.65 Actinaria
.66 Madreporaria
.7 Hydrozoa
.71 Hydromedusæ
.72 Siphonophora
.73 Acalepha
.74 Calycozoa
.76 Marsupialida
.77 Discophora Jelly fish
.8 Ctenophora Jelly fish

593.9 **Echinodermata**
.91 Crinoidea, sea lilies
.92 Asteroidea, star fish
.93 Stelleridea
.94 Ophiuridea
.95 Echinoidea, sea urchins
.96 Holothuroidea, sea cucumbers
.97 Pedata
.98 Apoda
.99 **Enteropneusta**

594 Mollusks

.1 **Lamellibranchiata Bivalvs**
.2 **Scaphopoda**
.3 **Gastropoda Univalvs: snails, slugs** See also 632 Pests
.4 **Pteropoda Wingd shells**
.5 **Cephalopoda Squids and cuttle fish**
.6 **Molluscoidea**
.7 **Bryozoa (Polyzoa) Sea mats**
.8 **Brachiopoda Lamp shells**
.9 **Tunicata (Ascidia) Sea grapes**

595 Articulates

.1 **Worms Vermes** See also 632 Pests
.2 **Arthropoda**
.3 Crustacea
.31 Entomostraca Cyclops, shrimps, etc.
.32 **Phyllopoda**
.33 **Ostracoda**
.34 **Copepoda**
.35 **Cirripedia Barnacles, etc.**
.36 Malacostraca Sandbugs, crabs, lobsters, etc.
.37 **Arthrostraca**
.38 **Thoracostraca**
.39 Gigantostraca Trilobites
.4 **Arachnida Spiders Scorpions Mites** See also 632 Pests
.5 **Onychophora**
.6 **Myriopoda: centipedes, etc.** See also 632 Pests
.7 **Insects Insecta Hexapoda** See also 632 Pests
.71 Thysanura: bristletails, springtails, etc.
.72 Orthoptera: grasshoppers, etc.
.73 Pseudoneuroptera: dragon-flies, white ants, etc.
.74 Neuroptera: caddis flies, etc.
.75 Rhynchota: (hemiptera) bugs, etc.
.76 Coleoptera: beetles
.77 Diptera: flies, etc.
.78 Lepidoptera: butterflies, moths
.79 Hymenoptera: bees, wasps, etc.

596 Vertebrates

597 Fishes Pisces

.1 **Pharyngobranchii Lancelet**
.2 **Marsipobranchii Lampreys**
.3 **Elasmobranchii Sharks, rays, etc.**
.4 **Ganoidei Sturgeons, garpikes, etc.**
.5 **Teleostei: true bony fishes**
.6 **Batrachia (Amphibia)**
.7 **Ophiomorpha**
.8 **Anura Toads, frogs**
.9 **Urodela Salamanders**

598 Reptils Birds

.1 **Reptils**
.11 Lacertilia Lizards
.12 Ophidia Snakes
.13 Chelonia Turtles
.14 Crocodilia Crocodiles
.15 Ichthyopterygia
.16 Sauropterygia
.17 Anomodontia
.18 Pterosauria
.19 Dinosauria
.2 **Birds Aves**
.3 Grallatores, waders
.4 Natatores, swimmers
.5 Cursores, runners
.6 Rasores, scratchers
.7 Scansores, climbers
.8 Insessores, perchers
.9 Raptores, birds of prey

599 Mammals Mammalia

.1 **Monotremata Duckbild platypus**
.2 **Marsupialia Kangaroos, opossums**
.3 **Edentata Rodentia Insectivora Sloths Rodents Moles**
.4 **Cheiroptera Bats**
.5 **Cetacea Sirenia Whales, etc.**
.6 **Proboscidea Hyracoidea Elephants Hyrax**
.7 **Ungulata Carnivora Domestic mammals** See also 636
.8 **Quadrumana Apes**
.9 **Bimana Man** See also 573 Nat. hist. of man; 610 Medicin

Useful Arts

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600 Useful arts

601 Filosofy Theories, etc.

602 Compends, outlines

603 Dictionaries, cyclopedias

604 Essays, lectures, addresses

605 Periodicals, magazines, reviews

606 Societies Fairs Exhibitions

Special exhibitions go with their topics. This is general only

607 Education Schools of technology

Divided like 940–999

608 Patents Inventions

609 History of useful arts in general

For its history, see each special department

610 Medicin

610.1 Pilosofy, theories .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools; divided like 940-999 .72 Medical education of women .73 Training schools for nurses .77 Medical museums .8 Collections .9 History of medicin

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.016 Paleontologic "
.018 Histology
.019 Comparativ anatomy
.1 Circulatory system
.2 Respiratory "
.3 Digestiv "
.4 Glandular and lymphatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

.01 Theory
.0111 Notion, definition, value
.0112 Classification, division
.0114 Terminology

.012 Teratology Anomalies
To be subdivided like revised 617.3 Orthopedic surgery

.013 Ontogeny Embryology
See also physiology, 612.6 Reproduction and development

1 Germinativ cells
11 **Sperm**
12 Spermatogenesis See also 611.63 Male genital organs
15 **Ovum**
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum
2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.3
3 Germ layers
31 **Segmentation Cleavage Blastula**
314 Blastula
32 **Gastrula**
33 **Primitiv streak**
34 **Blastopore** Primitiv mouth
35 **Archenteron** Primitiv gut
36 **Neurenteric canal**
37 **Entoderm, entoblast, hypoblast or endoderm**
38 **Ectoderm, epiblast or ectoblast**
39 **Mesoderm or mesoblast**
395 Mesenchyme
4 Entodermic, entoblastic or hypoblastic organs
41 **Notochord**
5 Ectodermic, epiblastic or ectoblastic organs
Epidermal layer
51 **Neural furrows, folds and canal or medullary plates**
See also 611.8 Nervous system

611.0136 Mesodermic organs

61 **Protovertebrae Mesoblastic somites, or primitiv vertebrae**

64 **Somatopleure, body wall, or musculocutaneous plate**
Outer lamella of lateral plates

65 **Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate**
Inner lamella of lateral plates

66 **Coelom, pleuroperitoneal or body cavity**
See also 611.389 Coelom

68 **Blood or primitiv vessel wall**
See also 611.0185 Histology of blood

7 External form of embryo

8 Fetal appendages

81 **Vitellin sac**

82 **Allantois**

83 **Amnion**

835 Amniotic fluid

84 **Chorion**

85 **Placenta** Umbilic cord

9 Experimental embryology

.014 **Anthropologic anatomy**
See also 572 Anthropology

.016 **Paleontologic anatomy**
See also 560 Paleontology

.018 **Histology**
Microscopic structure of organs

1 Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong

11 **Protoplasm**

13 **Nucleus**

15 **Cell division** See also 611.01331

16 **Centrosome**

18 **Cilia Cellular membrane**

2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'supporting tissues'

21 **Connectiv tissue cells**

22 **Connectiv tissue fibers**

23 **Ground substance or matrix**

24 **Reticular and adenoid tissue**
Areolar or interstitial tissue Reticulum

25 **Mucous or gelatinous tissue Mesenchyme**
See also embryology, 611.013395 Mesenchyme

26 **Adipose or fat tissue**

27 **Elastic or yellow fibrous tissue**

28 **Fibrous or white fibrous tissue**

29 **Pigment and pigment cells**

3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828

34 Perichondrium

611.0184 Bone or osseous tissue
41 **Bone cells**
Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin
43 **Ground substance or matrix**
Spongiosum, spongy substance, or cancellated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals
Volkmann's canals
44 **Periosteum**
Osteogenetic layer or cells; fibers of Sharpey
46 **Bone marrow or medulla**
5 Blood
See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616
57 **Lymf**
See also 612.42 Lymphatic system
6 Muscular tissue Sarcoplasm
61 **Smooth, unstriped, unstriated or involuntary muscle**
62 **Striped, striated or voluntary muscle**
Sarcolemma
63 **Cardiac muscle**
64 Histology of muscular contraction
7 Epithelial tissue
72 **Glandular system**
73 **Mucous membranes**
74 **Serous " Endothelia**
8 Nervous tissue
81 **General structure Tectology Neurone**
Regeneration
82 **Nerv cells**
Protoplasm: Nissl's bodies; reticular, fibrillar, and canalicular structures; pigment. Nucleus. Centrosome. Cell membrane and division
83 **Prolongations and nerv fibers**
Cylinder-axis process; cylinder axis. Appendixes, varicosities
833 Neurilemma Schwann's sheath
834 Myelin Ranvier's nodes Medullary sheath
835 Adventitious sheath, perineurium Epineurium
Endoneurium
837 Dendrites
84 **Neuroglia** Ependymal cells, amyloids
86 **Terminations**
861 Motor terminations
866 Sensory "

.019 Comparison with anatomy of lower animals
Usually better clast in 591.4

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs

611.07 Teaching Methods
.072 Laboratories Dissection
.077 Pedagogic methods
.078 Instruments Apparatus
.08 Polygrafy
.09 History

.1 Circulatory system
.11 Pericardium
.12 Hart
.122 Left hart
.123 Right hart
.124 Ventricles
2 Right 5 Left
.125 Auricles
2 Right 5 Left
.126 Endocardium
3 Valvs
4 Auriculoventricular valvs
42 Mitral or bicuspid valvs
46 Tricuspid valvs
5 Valvs of aorta and of pulmonary artery
Sinuses of Valsalva
52 Aortic valvs
56 Pulmonary or semilunar valvs
6 Valvs of right auricle
2 Eustachian 5 Coronary
.127 Myocardium
.13 Arteries
.131 Pulmonary artery
2 Right branch 5 Left branch
.132 Aorta
1 Aortic arch Ascending aorta
2 Coronary arteries
2 Right 5 Left
5 Innominate artery
.133 Carotid arteries
1 Common carotid
2 External "
21 Superior thyroid
22 Lingual
23 Facial, or external maxillary
24 Ascending pharyngeal
25 Posterior auricular
26 Occipital
27 Superficial temporal
28 Internal maxillary
281 Sphenopalatin arteries
289 Middle or great meningeal
3 Internal carotid
32 Ophthalmic artery
33 Cerebral arteries, anterior and middle
For posterior cerebral artery see 611.1349

611.134 **Subclavian arteries**

1 Axillary

Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex

2 Brachial or humeral

Superior and inferior profunda, nutrient, anastomotica magna, muscular

3 Forearm arteries

31 Radial

35 Ulnar

4 Hand arteries

5 Internal mammary Superior epigastric

6 Costocervical trunk

7 Thyrocervical trunk

8 Posterior, or dorsal scapular, transversa colli

9 Vertebral Basilar, posterior cerebral, circle of Willis

.135 **Thoracic aorta and branches**

1 Parietal branches

4 Intercostal "

Subcostal, diaframatic, vas aberrans

5 Visceral branches

Bronchial, esofageal, pericardial, mediastinal

.136 **Abdominal aorta and branches**

1 Inferior frenic

2 Lumbar

3 Middle sacral; caudal

4 Celiac axis

Celiac mesenteric, umbilic mesenteric or omphalomesenterica

41 Hepatic

Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic

42 Splenic, lienalis

Pancreatic, vasa brevia, left gastro-epiploic

43 Left gastric, gastric, or coronary gastric

5 Mesenteric

51 Superior mesenteric

Rami intestini tenuis, or branches of small intestin; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches

52 Inferior mesenteric

Left colic, sigmoid, superior hemorrhoidal

6 Middle suprarenal

7 Renal

8 Spermatic

9 Ovarian

.137 **Iliac arteries**

1 Common iliac

2 Hypogastric, or internal iliac

3 Parietal branches

4 Lateral sacral

5 Obturator

611.1376 Gluteal
61 Superior gluteal
65 Inferior gluteal Sciatic
7 Visceral branches
71 Umbilic, superior vesical
72 Inferior vesical and deferential
73 Uterin and vaginal
74 Middle hemorrhoidal
75 Internal pudic
8 External iliac artery
81 **Inferior epigastric, or deep epigastric**
82 **Deep circumflex iliac**
83 **Femoral**
84 **Deep femoral, profunda femoris**
2 External circumflex 5 Internal circumflex
85 **Arteria genu suprema, or anastomotica magna**
86 **Popliteal**
87 **Anterior tibial**
9 Tibiofibular trunk, truncus tibioperoneus
91 **Posterior tibial**
92 **Peroneal**
93 **Arteries of foot**
94 Dorsalis pedis
Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
95 Plantar
.14 Veins
.141 **Pulmonary**
.142 **Cardiac or venae cordis**
.143 **Subintestinal, or fetal portal vein**
.144 **Cardinal**
.145 **Superior vena cava**
Innominate veins Veins of neck
1 Internal jugular vein
Thyroid veins
11 **Cerebral veins** **Sinuses of dura mater**
13 Emissary vein
15 **Superior ofthalmic**
16 **Inferior** "
17 **Facial**
2 External jugular
3 Posterior external jugular and vertebral
4 Subclavian and axillary
41 **Deep veins of upper extremity**
46 **Superficial veins of upper extremity**
2 Basilic 5 Cephalic
6 Azygos
7 Spinal veins

611.146 **Inferior vena cava**
1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior frenic
6 Spermatic
Pampiniform or spermatic plexus
7 Ovarian
.147 **Iliac veins**
1 Hypogastric or internal iliac
Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
33 Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot
.149 **Portal vein**
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
Ductus venosus Aranzii, or sinus venosus large vein passing directly thru fetal liver
8 Umbilic
.15 Capillaries
.2 Respiratory system
.21 Nose
See also 611.86 Organs of smell
.211 **External nose**
.22 Larynx
.221 **Cartilages**
Epiglottis, thyroid, arytenoid, cuneiform, cornicular
.223 False vocal cords
.224 Ventricles
.225 **Cavity of larynx Glottis**
True vocal cords Rima glottidis or chink of glottis
.227 Ligaments
.229 **Muscles of larynx**
.23 Trachea and bronchi
.231 **Trachea**
.233 **Bronchi**
See also 611.24 below
.24 Lungs, or pulmones
.25 Pleura
.26 Diafram
.27 Mediastinum
.28 Gills
See comparativ anatomy, 591.42 Respiratory organs
.29 Other organs, including air bladder swimming bladder See 591.42

611.3 Digestiv system
.31 Mouth, buccal cavity or cavum oris
.313 Tung
5 Papillae
.314 Teeth
.315 Palate, palatum, or roof of mouth Soft palate, or velum pendulum palati Uvula
.316 Salivary and other glands of mouth
1 Submaxillary and sublingual glands
5 Parotid glands Stenson's duct
.317 Lips
.318 Cheeks
.32 Pharynx Esofagus
.321 Pharynx
.322 Tonsils
.323 Faucial tonsils
.324 Pharyngeal or Luschka's tonsils
.325 Lingual, buccal or 4th tonsil
.326 Other tonsils: laryngeal, nasal
.327 Topografy or regions of pharynx
1 Nasal or epipharynx
2 Oral, buccal, or meso pharynx
3 Laryngeal or hypo pharynx
4 Back
5 Sides
.329 Esofagus
1 Cervical 2 Thoracic section 3 Abdominal section including diaframatic
.33 Stomach
Gastric glands: true, oxyntic or peptic; pyloric; cardiac
.333 Cardia
.334 Pylorus
.335 Greater curvature, or lower convex surface
.336 Lesser " " upper concave "
.34 Intestin
.341 Small intestin
2 Meckel's diverticulum
3 Peyer's patches, or tonsillae intestinales
4 Plicae circulares
5 Glands of Lieberkühn and solitary glands
.342 Duodenum Brünner's glands
.343 Jejunum
.344 Ileum
.345 Cecum
1 Ileocecal valv
2 Vermiform appendix
.347 Large intestin
Including cecum Appendices epiploicae
.348 Colon
2 Ascending
3 Transverse
4 Descending
.349 Sigmoid flexure
.35 Rectum Anus
.351 Rectum Houston's or rectal valvs
.352 Anus
.353 Perineum See also 611.96

611.36 Liver
.361 **Bile ducts** **Bile capillaries or canaliculi**
.362 Hepatic duct
.366 Cystic duct Gall bladder
.367 Common bile duct, or ductus communis choledicus
Process and ampulla of Vater

.37 Pancreas
.373 Pancreatic duct, or canal of Wirsung
.375 Duct of Santorini
.376 Glandular portion
.377 Interalveolar cell-ilets, intertubular cell masses, ilands of Langerhans

.38 Peritoneum Mesentery Omentum Coelom
.381 Peritoneum
2 Parietal 5 Visceral
.382 Omentum, epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
.383 Mesentery
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
.384 Retroperitoneal fossae
.389 Coelom or pleuroperitoneal cavity

.39 Adipose bodies

.4 Glandular and lymfatic system
Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general

.41 Spleen
.415 Malpighian bodies
.418 Capsule of spleen

.42 Lymfatic vessels or lymfatics and capillaries
For lymfatics of an organ or tissue, see name of organ or tissue
Lymfatic spaces
.421 Lymfatics by region
1 Hed
2 Face
3 Neck
4 Thorax
5 Abdomen
6 Pelvic region
7 Upper extremity
2 Arm 4 Forearm 6 Hand
8 Lower extremity
2 Thigh 4 Leg 6 Foot
9 Tail
.423 Receptaculum chyli or cistern of Pecquet
.424 Thoracic duct (left)
.425 Right lymfatic duct
.426 Lacteals
5 Villi

.43 Thymus
.435 Accessory thymus

.44 Thyroid gland
.445 Accessory or aberrent thyroids
.447 Parathyroids

.45 Suprarenal capsules or bodies
Accessory suprarenal capsules

611.46 Lymfatic glands
.461 **Glands of hed**
.462 " " face
Internal maxillary Submental
.463 **Glands of neck**
1 Suboccipital or occipital
2 Mastoid, retroauricular or postauricular
6 Retropharyngeal
7 Cervical or jugular
8 Subclavian
.464 **Glands of thorax**
1 Diaframatic
2 Mammary lymf
3 Intercostal
4 Mediastinal
.465 **Abdominal lymf glands**
1 Iliac and hypogastric: sacral, lumbar
2 Abdomino-aortic
21 Juxta-aortic
22 Preaortic: gastric, splenic, hepatic
23 Retroaortic
4 Glands of small intestin: mesenteric
6 Glands of large intestin: colic, rectal
.467 **Lymf glands of upper extremity**
1 Axillary
2 Epitrochleal or supratrochleal and other glands
5 Pectoral
.468 **Lymf glands of lower extremity**
1 Inguinal
2 Femoral
3 Popliteal
4 Anterior tibial
.47 Carotid gland or body
.48 Coccygeal gland
.6 Genito-urinary system Brests
.61 Kidneys
Class here urinary organs in general
.615 Uriniferous tubules
.617 Ureter
.618 Pronephros
.619 Mesonephros
.62 Bladder Urethra
.621 Bladder
3 Urethral openings
.622 Ligaments: urachus
For pedicle of allantois see also embryology, 611.01382
.623 Urethra
For female urethra see 611.674
1 Prostatic part
Verumontanum or caput gallinaginis
Sinus pocularis or uterus masculinus
2 Membranous part
3 Spongy, cavernous or penial part
4 Lacunae Littré's glands
.627 Bulbo-urethral or Cowper's glands
.629 Urogenital sinus

611.63 Male genital organs
.631 Testicles or testes
1 Seminiferous tubules
Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
3 Tunics of testes: vaginalis, albuginea, vasculosa
5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
.632 Epididymis
.633 Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
.634 Vas deferens
.635 Ejaculatory ducts
.636 Seminal vesicles
.637 Prostate
.638 Scrotum
4 Dartos
.639 Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia

.64 Penis
.641 Root
.642 Body Prepuce
.643 Glans penis, or acorn
.644 Meatus
.645 Corpora cavernosa
.646 Corpus spongiosum
.647 Bulb of urethra

.65 Female genital organs Adnexa
.651 Ovaries
1 Medullary substance Stroma
2 Graafian follicles
Capsule of ovum, membrana granulosa, discus proligerus
3 Cortical layer
.652 Corpus luteum or corpora lutea
See also embryology 611.01317
.656 Fallopian tubes

.66 Uterus
.662 Endometrium
.664 Cornua
.665 Body or parenchyma
.666 Neck, cervix
.667 Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36.
2 Broad or lateral
3 Round Canal of Nuck
4 Uterosacral and uterolumbar Pouch of Douglas
Posterior ligaments
6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
7 Paroophoron
.669 Müller's duct Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in com- with human organs

.67 Vagina Vulva
.671 Vagina
.672 Hymen Vestibulum
.673 Vulva
1 Mons veneris 2 Labia majora 3 Labia minora
.674 Female urethra
.675 Clitoris Bulbus vestibuli
.677 Bartholini's, or vulvo-vaginal glands

.69 Brests
.691 Nipple and areola Glands of Montgomery
.692 Acini, acinous glands
.263 Galactoforous or lactiferous ducts

611.7 **Motor and integumentary systems**

.71 Osteology Bones Skeleton

.711 **Spinal colum**

1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx

.712 **Ribs Thorax**

5 Costal cartilages

.713 **Sternum or brest bone**

Menubrium; gladiolus; zyphoid or ensiform

.714 **Bones of hed Skull**

1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae

.715 **Cranium, cranial bones**

1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer

.716 **Bones of face or visceral cranium**

1 Maxillary, upper jaw or superior maxillary
2 Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
41 Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better clast in 591.4

.717 **Bones of upper extremity**

1 Scapula, shoulder blade
Shoulder girdle as a whole Acromion
2 Clavicle or collar bone
3 Coracoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
71 Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cuneiform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangulum majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus, metacarpal bones

611.7179 Phalanges of hand
91 Basilar or proximal phalanges
93 Middle phalanges
95 Ungual or distal phalanges
99 Sesamoid

.718 Bones of lower extremity
For pelvis see 611.96

1 Hip bone, or os coxae or innominatum
Acetabulum or cotyloid cavity
11 Ilium
12 Ischium
13 Pubis

4 Femur
45 Patella See also 611.7283 Knee joint and 611.983 Knee

5 Tibia

6 Fibula

7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
Internal or first, middle or second, external or third cuneiform

8 Metatarsal bones

9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second "
95 Ungual or third "
99 Sesamoid bones

.72 Ligaments Joints

.721 Articulations of vertebrae and of cranium
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
8 Coccygeal

.722 Costovertebral articulations

.723 Costosternal, costochondral, chondrosternal, interchondral, intersternal

.724 Jaw joint, temporomandibular, temporomaxillary or mandible joint

.727 Articulations of upper extremity
1 Sternoclavicular joint and costoclavicular or rhomboid ligament

2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments

3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis

4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal

611.7275 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal "
8 Metacarpophalangeal "
9 Phalangeal or finger joints

.728 **Articulations of lower extremity**
1 Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
3 Knee joint
31 Crucial or femorotibial ligaments
33 Semilunar fibrocartilages
34 Anterior or ligamentum patellae
38 Tibiofibular ligaments
4 Ankle joint
41 Inferior tibiofibular joint
44 Tibiotarsal ligaments
5 Intertarsal ligaments
51 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform "
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
58 Intercuneiform articulations
6 Tarsometatarsal articulations
7 Intermetatarsal "
8 Metatarsophalangeal "
9 Toe joints

.729 **Classes of joints**
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket joint
64 Ginglymus or hinge joint
65 Trochoid or pivot joint

.73 Muscular system Myology

.731 **Dorsal muscles**
1 Spinohumeral or humerospinal muscles
11 Trapezius
12 Latissimus dorsi
13 Rhomboid
14 Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
31 Iliocostal
36 Longissimus dorsi
4 Splenius and complexus

611.7315 Spinalis dorsi
6 Transversospinales
61 Semispinalis
65 Multifidus
68 Rotatores
7 Breves spinae
71 Interspinales
76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

.732 Muscles of hed

See also 611.7318–9 and 611.7337–8

1 Platysma myoides
2 Occipitofrontalis or epicranial
3 Muscles of nose
Pyramidalis nasi, compressor nasi, compressor narium minor, depressor alae nasi or myrtiform, dilatores nasi
4 Muscles of ear Attrahens, attollens, retrahens
5 Palpebral and orbital muscles of eye
Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii; levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461
6 Buccal muscles
Buccinator, orbicularis oris, levator anguli oris, levatores labii superioris, levator labii superioris alaeque nasi, zygomatic, levator labii inferioris, levator menti, depressor labii inferioris or quadratus menti; depressor angulae oris or triangularis menti; risorius, or Santorini's muscle
7 Muscles aiding mastication and deglutition
71 Masseter
72 Temporal
73 Pterygoid
75 Muscles of palate and pharynx
76 Palate
Levator palati, tensor palati, azygos uvulae, palatoglossus, palatopharyngeus, salpingopharyngeus
78 Pharynx
Inferior, superior and middle constrictors, stylopharyngeus

.733 Muscles of neck

1 Sterno-cleido-mastoid
2 " hyoid
3 Omohyoid
4 Sternothyroid
5 Thyrohyoid
6 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

.734 Hyoid muscles

Depressors of lower jaw or elevators of hyoid. For tung see 611.313

1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid

611.735 **Thoracic muscles**

1 Pectoralis major
2 " minor
3 Subclavius
4 Levatores costarum
5 Serratus magnus or serratus anterior
6 Intercostal
7 Subcostal
8 Transversus thoracis or triangularis sterni

.736 **Abdominal and coccygeal muscles**

1 Rectus abdominis
2 Pyramidalis abdominis
3 Oblique abdominal
6 Cremaster
7 Transversalis or transversus abdominis
8 Quadratus lumborum
9 Coccygeal

.737 **Muscles of upper extremity**

1 Shoulder or axillary

11 Deltoid
12 Supraspinatus
13 Infraspinatus
14 Teres minor
15 Teres major
16 Subscapular

2 Arm

21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubiti
25 Anconeus

3 Forearm

4 **Pronator muscles**

41 Pronator radii teres
45 " quadratus

5 **Flexors of forearm**

51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus

6 **Extensors and supinators**

61 Brachioradialis
62 Extensor carpi radialis longus
63 " " " brevis
64 " " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thum. or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius

7 Muscles of hand

71 Lumbricales
72 Palmaris brevis
73 Short abductor of thum, or opponens pollicis
Short flexor of thum, or flexor brevis pollicis. Adductor pollicis
76 Muscles of little finger
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti; short flexor of 5th or little finger, or flexor brevis digiti minimi
79 Interosseous muscles

611.738 **Muscles of lower extremity**

1 Hip and nates

11 Iliopsoas

12 Iliacus

13 Psoas major and minor

14 Gluteal

15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris

16 Piriformis

17 Obturator internus

18 Gemelli or gemini

19 Quadratus femoris

.7382 Thigh muscles

21 Sartorius

22 Quadriceps femoris or quadriceps extensor femoris

Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius

225 Articularis genu, or subcrureus

23 Pectineus

24 Adductors: longus, brevis, magnus and minimus

25 Gracilis

26 Obturator externus

27 Biceps femoris or biceps flexor cruris

28 Semitendinosus

29 Semimembranosus

3 Leg

4 **Anterior muscles**

41 Anterior tibial or tibialis anticus

42 Extensor digitorum longus

43 " hallucis " or proprius

46 Peronaeus tertius

5 **Other muscles of leg**

51 Peronaeus longus

52 " brevis

53 Gastrocnemius

54 Soleus, triceps surae

55 Plantaris

56 Popliteus

57 Posterior tibial

58 Flexor digitorum longus

59 " hallucis "

7 Muscles of foot

8 **Back of foot**

Extensor brevis digitorum

Sole of foot or plantar region

Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles

.739 Electric organs Better clast in comparativ anatomy

.74 Tendons Fasciae

May be divided like 611.73; e. g. Achilles tendon 611.74854

.75 Bursae Sheaths of tendons

.751 **Hed**

.752 **Neck**

.753 **Back**

.754 **Shoulder**

.757 **Upper extremity**

.758 **Lower "**

.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue

611.77 Skin Glands of skin
.771 Cuticle, scarf skin or epidermis
Horny and Malpighian layers
.772 Glands of skin
.773 Sebaceous
.774 Sudoriferous or swet
.775 Ciliary glands
.776 Circumanal "
.777 Ceruminous "
.778 Corium, cutis vera, true skin or dermis
Reticular and papillary layers
5 Pigmentation
.779 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus
.78 Hair, nails, scales, fethers, etc.
For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy
.781 Hair
.785 Scales
.786 Nails
.787 Fethers
.788 Horns
.8 **Nervous system Sense organs**
.81 Encephalon Brain
Mesurement Weight
.811 **General structure of brain and cerebrospinal axis**
.812 **Localizations**
.813 **Telencephalon, or endbrain Prosencephalon, or forebrain Hemisferes**
Longitudinal and transverse fissure
1 Pallium, brain mantle or cerebral cortex
11 **Frontal lobe**
Broca's convolutions
12 **Parietal lobe Central fissure, sulcus centralis, or Rolando's groove**
Opercula insulae
13 **Temporal or temporosphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis**
14 **Limbic lobe Gyrus fornicatus**
Hippocampal gyre, or gyrus hippocampi Callosal gyre Dentate gyre, or fascia dentata hippocampi Fasciola Fimbria, taenia fornicis or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
15 **Occipital lobe**
Occipital or parieto-occipital fissure
16 **Paracentral gyre or lobule**
17 **Cuneus Calcarin fissure**
18 **Precuneus, or quadrate lobe**
19 **Insula, iland of Reil, central lobe, or gyri operti**
2 Striatum, striate body, or corpus striatum
Basal ganglion of hemisphere
21 **Caudatum, taild nucleus, or nucleus caudatus**
22 **Lenticula, lenticular nucleus, or nucleus lentiformis**
Globus pallidus, or pallidum, and putamen
23 **Claustrum**
25 **Tenia, taenia semicircularis, stria terminalis or corneae**

611.8133 Rhinencephalon or rhinencefal
Olfactory bulb tract, substantia perforata anterior, precribrum, etc.
Broca's area, or parolfactoria

7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule

8 Paraceles or lateral ventricles

9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or septum Cavum septi pellucidi, 5th ventricle or pseudocele

.814 Diencephalon, diencefal, thalamencephalon or interbrain

1 Hypothalamus or subthalamic tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure

2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris

3 Hypophysis
Hypophysis cerebri, pituitary body or somatic brain
Tuber or tuber cinereum Infundibulum

4 Optic tract Optic chiasm or commissure

5 Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii

6 Geniculate bodies, or geniculum Metathalamus

7 Thalamus or optic thalamus
Thalamic radiation: ansa peduncularis, ansa lenticularis
For Nissl's bodies see 611.01882

8 Third ventricle, or diacele
Porta or foramen of Monro, or foramen interventriculare

.815 Mesencephalon, midbrain or mesencefal

3 Quadrigeminum
Corpora or tubercula quadrigemina Quadrigeminal arms

4 Pedunculi or crura cerebri, crura or crus

41 Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611.8141

42 Foot of peduncle, basis or pes pedunculi, or crusta

43 Tegmentum

44 Red nucleus, nucleus ruber, or rubrum

5 Nuclei of oculomoto and trochlear nervs

6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

.816 Isthmus rhombencephali

3 Valv of Vieussens, or superior medullary velum

4 Superior cerebellar peduncles
Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum
Lemniscus: mesial and lateral fillets

611.817 Metencephalon or epencephalon, epencefal or hindbrain
Pons (Varolii)

1 Cerebellum
11 Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
13 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.
15 White substance of cerebellum Arbor vitae
3 Pons Varolii Tegument For reticula see 611.8226
4 Nuclei of trigeminus system
41 Nucleus motorius or motor nucleus of 5th nerv
42 Nucleus of spinal tract or sensory nucleus of 5th nerv
5 Nucleus or nidus of abducent nerv
6 " " " " facial nerv
68 Salivary nucleus
7 Cochlear nidi or nucleus of cochlear nerv
Ventral root of 8th nerv
76 Trapezium or trapezoid body
77 Nucleus of superior olivary body
78 Acoustic striae, striae acusticae or medullares
8 Vestibular nidi or nucleus of vestibular nerv
Dorsal root of 8th nerv

.818 Myelencephalon, metencefal, medulla, bulb or afterbrain, postoblongata or medulla oblongata

1 Pyramids Pyramidal decussation
2 Dorsal colum, posterior fibers, or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando, cuneatus and gracilis
3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis
4 Interolivary stratum, fillet or lemniscus
5 Fourth ventricle or metepicele
Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius
6 Nucleus of glossopharyngeal system Solitary tract
7 Nuclei of vagus and accessory nervs
75 Ambiguous nucleus
78 Dorsal nucleus of vagus
9 Nucleus of hypoglossal system or hypoglossal nidus

.819 Meninges and cerebral meninges

1 Pia mater or pia
2 Telae choroideae, velum interpositum, choroid plexus
3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations
4 Cisterns, or subarachnoid cisterns
5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

611.82 Spinal cord, or myel

.821 **Enlargements or intumescentia; general structure**

2 Cervical cord or myel, pars cervicalis
3 Thoracic or dorsal cord or myel, pars thoracalis
4 Lumbar cord or myel, pars lumbaris
5 Sacral cord
6 Terminal cone, or conus (medullaris) Filum Cauda (equina)
8 Grooves and fissures, sulci and fissurae

.822 **Gray substance or matter, entocinerea or cinerea Gray cornua or colum**

1 Anterior or ventral colum or cornu or funiculus anterior
2 Posterior or dorsal " " "
3 Clarke's colum, nucleus dorsalis or Stilling's nuclei
4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa
6 Reticula or formatio reticularis

.823

.824 **White substance, or alba**

.825 Anterolateral colum

Anterior plus lateral colums

2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**

Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus

Crost pyramidal tract, or cerebrospinalis lateralis

3 Direct cerebellar tract, or dorsolateral cerebellar tract
4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal
7 Anterolateral ground bundle or fasciculus proprius anterolateralis
8 Anterior or ventral commissure

.826 Posterior or dorsal colums

1 Ascending fibers

Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's colum
8 Radicular fibers
9 Posterior or dorsal commissure

.827 **Roots of nervs**

Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832

1 Anterior or ventral roots
2 Posterior " dorsal "

.828 **Spinal canal Ependyma or endyma**

Rhomboidal sinus Reissner's fibers

.829 **Spinal membranes, or meninges spinales**

1 Spinal pia mater
3 " arachnoid
5 " dura mater

611.83 Periferal nervous system Nervs

.831 **Cranial nervs and ganglia**

1 **Olfactory, or 1st cranial**
2 **Optic, or 2d cranial**
3 **Motoroculi, 3d cranial or oculomoto**
4 **Trochlear, pathetic, or 4th cranial**
5 **Trifacial, trigeminus, or 5th cranial**
Large or great superficial petrosal branch
52 Ofthalmic nerv of Willis
54 Superior maxillary nerv or maxillary nerv
542 Infraorbital branch
56 Mandibular or inferior maxillary
6 **Abducent, external motoroculi, oculomoto, or 6th cranial**
7 **Facial, 7th cranial nerv, or portio dura**
73 Other collateral branches
74 Terminal branches
75 Pars intermedia of Wrisberg (nervus intermedius) **Chorda tympani**
8 **Auditory, acoustic or 8th nerv**
81 Cochlear nerv or path, or central auditory path
85 Vestibular path or nerv
9 **Glossopharyngeal or 9th nerv**
91 **Pneumogastric, vagus or 10th nerv**
911 Parietal branches: auricular and lateral nervs
914 Pharyngeal branches
915 Superior cardiac nervs
916 Superior laryngeal nerv
917 Inferior or recurrent laryngeal nerv
918 Pulmonary branches
919 Esofageal and gastric branches
92 **Spinal accessory or 11th nerv**
93 **Hypoglossal or 12th nerv**

.832 **Spinal nervs**

Including in 5–6 microscopic studies on nerv roots. See also 611.827
1 Dorsal or posterior branches
2 Ventral or anterior "
5 Dorsal or posterior roots See also 611.8272
6 Ventral or anterior " See also 611.8271

.833 **Cervical nervs**

1 **Dorsal or posterior branches of cervical nervs** **Small and large sub-occipital nervs**
2 **Ventral anterior branches of cervical nervs**
3 **Cervical plexus**
32 Large auricular nerv
33 Cutaneous nerv of neck
34 Supraclavicular nervs
36 Frenic or internal respiratory nerv of Bell
4 **Brachial plexus**
41 Supraclavicular part
47 Infraclavicular part
5 **Median nerv**
6 **Ulnar or cubital nerv**
7 **Radial nerv**
Musculo-spiral
8 **Musculocutaneous nerv**
9 **Antibrachii ulnaris**
Cutaneus brachii medialis, or nerv of Wrisberg

.834 **Thoracic nervs**

1 Posterior branches
2 Anterior " Intercostal nervs

611.835 **Lumbar and sacral nervs**
1 **Posterior branches**
2 **Anterior "**
3 **Lumbosacral plexuses**
4 Lumbar plexus
41 Great iliohypogastric nerv
42 Ilioinguinal
43 Genitofemoral or genitocrural
44 Lateral or cutaneous nerv of thigh
5 Femoral nerv or anterior crural nerv (femoralis)
51 Middle cutaneous nerv
52 Internal " "
53 Muscular branches of posterior division of anterior crural nerv
54 Long or internal saphenous nerv
6 Obturator nerv
61 Accessory obturator, or accessory anterior crural nerv of Winslow
68 Lumbosacral cord
7 Sacral or sciatic plexus
71 Superior gluteal
72 Inferior "
73 Small sciatic nerv (cutaneus femoris posterior)
8 Great sciatic nerv or ischiadicus
81 External popliteal, or peronaeus communis or peroneal
82 Sural or lateral cutaneous branch, or cutaneus surae lateralis
84 Musculocutaneous or superficial peroneal
86 Anterior tibial nerv or deep peroneal
87 Internal popliteal or tibial
88 Sural or plantar nervs
9 Genital, pudic or pudendal plexus
93 Collateral branches
95 Pudic nerv

.836 **Coccygeal plexus Coccygeal nervs**

.839 **Sympathetic system**
1 Cervical and cephalic part
11 Superior cervical ganglion
12 Internal carotid nerv and plexus
Cavernous plexus
13 External carotid nerv and plexus
14 Common " plexus Superior cardiac nerv
15 Middle " ganglion Middle " "
16 Inferior cervical "
17 " cardiac nerv Cardiac plexus
2 Thoracic part of gangliated cord
3 Abdominal and pelvic part of sympathetic system
31 **Solar or epigastric plexus or plexus coeliacus**

.84 Eye Organ of vision
See also 611.7146 Orbit, including capsule of Ténon

.841 **Fibrous coats or tunics of eye**
1 Conjunctiva
3 Cornea
5 Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana

.842 **Vascular coats of eye Uveal tract**
1 Iris Pupil
3 Choroid
Tapetum
5 Ciliary body, muscle and processes

.843 **Retina**
Optic disc; macula lutea For optic nerv see 611.8312

611.844 **Refracting media**
1 Crystallin lens
2 Zonule of Zinn or zonula ciliaris
7 Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stilling's or Cloquet's canal
Canal of Petit
9 Aqueous humor Anterior chamber
.846 **Accessory organs of eye**
1 External muscles, musculi oculi
4 Tear apparatus
7 Lacrimal gland
8 " canals and puncta
9 " sac and nasal duct
.847 **Eyelids or palpebrae**
Canthi
5 Eyelashes or cilia
6 Eyebrows or supercilia
.85 Ear Organ of hearing
See also 611.8318 Auditory nerv
.851 **Internal ear**
.852 Membranous labyrinth
1 Cochlea, scala media, or ductus cochlearis
2 Organ of Corti, or Corti's fibers
4 Saccule
5 Utricle
6 Semicircular canals
.853 Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella
.854 **Middle ear or tympanum**
Atrium or tympanic cavity proper
5 Attic
7 Mastoid cells
.855 Membrana tympani, or drumhed
.856 Eustachian tube or tuba auditiva
.857 Bones of ear
Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani
.858 **External ear**
Meatus, pinna
.86 Organs of smell; olfactory organs
.87 " " taste
.88 " " touch and senses in general
.889 Organa lateralia
.89 Ganglions
Class ganglions here if separately treated
.891 **Cranial ganglions**
5 Semilunar ganglion or Gasserian
52 Ciliary "
54 Sphenopalatin or Meckel's ganglion
56 Otic or Arnold's submaxillary ganglion
7 Geniculate ganglion
81 Spiral or Corti's ganglion
85 Vestibular ganglion
9 Petrosal and superior glossopharyngeal ganglion
91 Jugular and nodose ganglions
.892 Ganglions of spinal nervs
See also 611.832 Spinal nervs
.899 Sympathetic ganglions
For chromaffin tissue see 611.4

611.9 **Regional anatomy**
.91 Hed
.92 **Face**
.93 Neck
.94 Thorax
.942 **Front or pectoral**
.946 **Back or dorsal**
.95 Abdomen
.951 **Epigastric region**
.955 **Mesogastric "**
.957 **Hypogastric "**
.959 **Lumbar "**
.96 **Pelvic and perineal region**
.962 True pelvis
.964 False "
1 Inlet 2 Cavity 3 Outlet
.966 Position and size
.968 Difference between male and female pelvis
.97 Upper extremities
.971 **Shoulder or axilla**
.972 **Arm**
.973 **Elbow**
.974 **Forearm**
.975 **Wrist**
.976 **Hand**
.977 Fingers
.98 Lower extremities
.981 **Hip Nates Sulcus inguinalis**
1 Hip
2 Nates
3 Sulcus inguinalis
4 Inguinal canal
5 Crural or femoral canal
.982 **Thigh**
.983 **Knee Popliteal space**
.984 **Leg**
.985 **Ankle**
.986 **Foot**
.987 Toes
.99 Tail

612 Physiology

SUMMARY

612.013 Vitalism
.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

.01 General theory of physiology
.0111 Notion, definition, nature
.0112 Classification, division
.0114 Terminology, notation, symbols
.0118 Methods

.012 Physiologic theories and generalities

.013 On the nature of life and deth Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heds under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history

1 Signs of real deth See 577.7
2 Experiments on executed persons
4 Theories of life and the soul Vitalism
See metaphysics, 128
5 Comparisons of animals and plants See 577.5
6 Crganism and inanimate matter See 577.1
7 Vital energy See 577.6
8 Experiments on surviving organs See 577.6

.014 General physiology of cells and organisms

See 576 and note under 612.013

1 Chemistry of cells
11 **Aerobic and anaerobic cells**
2 Physiologic morfology of cells
21 **Functions of protoplasm**
22 " " **nucleus**
24 " " **chromosome bodies Chromatolysis**
26 " " **centrosome**
3 Physiologic characteristics of cells
31 Irritability in general
32 Fatigue
4 Influence of environment on cells and organisms Mesology
41 **Effects of barometric pressure**
See also 612.27 Influence of barometric pressure on living beings
42 **Action of electricity Electrophysiology**
421 Electrophysiologic technic
See also 615.84 Electrotherapy
2 Static electricity
4 Dynamic electricity
5 Alternating currents
7 Electric mesurements
8 Special instruments
1 Electrodes 2 Telefone, microfone 6 Galvanometers
422 Electric resistance Conductibility

612.014 423 Electric fenomena of organisms
For electric fenomena of muscles see 612.743, of nervs and muscles see 612.813
1 Theory of electric fenomena
2 Negativ variation
3 Electrotonus
4 Electric fenomena of tissues in repose and in action
424 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.0144240111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
2 Action of static electricity
3 " " atmosferic "
4 " " dynamic "
5 " " alternating currents
425 Deth by electric shock; by lightning
426 Magnetic action
427 Galvanotropism
428 Electrotherapy from physiologic point of view
43 Action of heat and cold See also 612.59
44 Action of light See also 612.843
445 Fosforescence
447 Heliotropism - Fototropism
See also 615.831 Fototherapy
45 Action of sound and its vibrations
See also 612.85876
46 Poisons and chemic substances
Poisons and definit chemic substances ar preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461 Effects of water
1 Reviviscent animals
2 Hydrations
3 Quantity of water in organisms and tissues
462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisible with 0 like 612; e. g. Cryoscopy of gastric juice 612.01446222032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.398133 Theory of histologic conservation
6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces
463 Action of mineral salts on organisms
464 " " air, normal and abnormal; of oxygen and ozone
465 " " anesthetics
466 " " antiseptics
467 Chemotaxis Chemotropism
469 Action of other chemic forces
47 Action of mechanical forces
477 Geotropism
478 Thigmotaxis
48 Other physical forces
481 Various rays
1 Physiologic effect of X rays
To express effect of X rays on a specific organ or tissue, ad 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
4 Effect on lower organisms
482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays

612.015 **Physiologic chemistry in general**
1 Ferments
11 **Oxydants** **Reducing ferments**
12 **Hydrolytic**
13 **Proteolytic**
14 **Lipolytic**
15 **Amylolytic and sucroclastic**
16 **Glycolytic**
161 Alcoholic
2 Normal composition of the body and its products
See also 612.3926, 612.396–.398
21 **Extracts of organs**
3 Metabolism
31 **Of mineral substances**
See also 612.3926
32 **Of carbon**
See also 612.22
33 **Of nitrogen**
See also 612.46123
34 **Of substances foren to the normal organism**
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " " crystallizable nitrogenous substances
348 " " albuminoids
349 " after deth Autolysis
Subdivisable with o like 612; e. g. autolysis of the liver 612.015349035
35 **Influence of temperature on metabolism**
See also 612.59
36 **Reductions, hydrations and syntheses in organisms**
37 **Influence of other agents on metabolism**
38 **Influence of nervous system on metabolism**
39 **Metabolism in disease**
4 Staining substances and pigments
.016 **Means of attack and defense**
Comparativ physiology; usually better clast in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites
.019 **Comparativ physiology**
May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981
Class here only books written distinctly from physiologist's point of view. Other works on comparativ zoology are better in 591.1
Form divisions
.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.077 Vivisection
See also ethics, 179.4, and laws, 614.22
.08 Polygrafy
.09 History

612.1 **Blood and circulatory system**
.109 History of circulation of blood
.11 General properties of blood
.111 **Red corpuscles**
1 Chemic composition
11 Hemoglobin and oxyhemoglobin
14 Carboxyhemoglobin
Action of CO on blood, carbon monoxid hemoglobin
15 Spectroscopy of blood
16 Methemoglobin and derivates
Hematin or hematoxylin, hematoidin, globin, hemin r Teichmann's crystals, hematochromogen, hematoporphyrin
17 Isotony of corpuscles Osmotic permeability
19 Chemic substances in corpuscles
Lecithin, urea, cholesterin, etc.
2 Number of corpuscles
Technic of counting
22 Volume of corpuscles
3 Formation of corpuscles
See also 612.119 Sanguification
4 Action of poisons on corpuscles
See also 612.11114 Action of CO on blood
44 Agglutinating substances
45 Hemolytic substances
6 Corpuscles in disease
7 Other red corpuscles than erythrocytes
8 Coloring matters of invertebrate blood
e. g. hemocyanin
9 Other similar coloring matters
e. g. chlorophyl and derivates: phyllcerytrin
.112 **Leucocytes and ameboid cells**
1 Chemistry of leucocytes
11 Ferments of leucocytes
Influence of leucocytes (lymphocytes) on digestion
2 Movements and irritability of leucocytes
3 Phagocytosis
4 Diapedesis
5 Effect on coagulation of blood
6 In disease and intoxications Leucocytosis
For digestiv leucocytosis see 612.11211
7 Counting and its technic
8 Numeric relations of white and red corpuscles
9 Varieties Physiologic morfology
.113 **Arterial blood**
.114 **Venous "**
.115 **Coagulation of blood**
1 Fibrin Fibrinoplastin
11 Composition and chemic properties
12 Fibrogenous and fibrinoplastic ferments Fibrinogen Thrombin
13 Estimating quantity of fibrin
3 Substances modifying coagulation
31 Retarding agents
35 Accelerating agents

612.116 **Total quantity of blood**

2 Hemorrhage Anemia

Subdivisable with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243, 618.54

21 Hemostasia

3 Transfusion

Effect on system receiving transfused blood

.118 **Physical and biologic properties of blood**

1 Physical

11 Osmotic pressure

See also 612.11117 Osmotic permeability

12 Effect of various injections

14 Viscosity

17 Cryoscopy of blood

Method of studying isotony and similar phenomena by relativ freezing points of solutions

2 Biologic properties

21 Toxins and antitoxins

Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins

211 Theory of toxic and antitoxic action

22 Toxic and antitoxic action of blood

Limited to blood toxins and antitoxins. See also 612.3988

221 Specific reaction of blood and albuminoids

Blood in legal medicin

222 Natural immunity

223 Effect of blood on bacteria

Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy

24 Various toxic and antitoxic substances of blood

7 Varieties of blood in different parts of body

.119 **Hematopoiesis or sanguification**

See also 612.1113 Formation of red corpuscles

.12 Chemic properties of blood

.121 **Reaction and density**

Color reaction Specific gravity

.122 **Carbohydrates in blood**

1 Glucose 2 Glycogen 3 Glycolytic ferments

.123 **Fats, lipoids, cholesterin, saponin, glycerin**

.124 **Albumins and albuminoids Uncrystallizable nitrogen compounds**

See also 612.39812 Blood serum

.125 **Crystallizable nitrogen compounds**

1 Staining substances of serum

.126 **Mineral salts**

.127 **Blood gases**

1 Technic for determining quantity 2 Oxygen 3 Carbonic acid

.128 **Ferments**

.129 **Other chemic substances**

Abnormal substances

612.13 Hydraulic principles of circulation
.133 **Arterial circulation**
Sounds and murmurs
See also 612.143
.134 **Venous circulation**
See also 612.144
1 Air in the veins
2 Venous pulse Flebogram
.135 **Capillary circulation**
.14 Blood pressure
.141 **Technic of mesuring pressure**
Sphygmograf Sphygmomanometry
.143 **Pressure in arteries**
See also 612.133
.144 **Pressure in veins**
See also 612.134
.145 **Pressure in capillaries**
See also 612.135
.146 **Influence of various agents on pressure**
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts
3 Pressure in disease
.148 **Pressure in lesser or pulmonary circulation**
.15 Rapidity of circulation
In arteries, veins or capillaries Technic of mesuring
.16 Pulse
For dicrotic pulse see 616.071 Pulse in diagnosis
See also 612.1342 Venous pulse
.166 **Pulse in disease**
.17 Hart
.171 **Mechanism of cardiac contraction**
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformd
.172 **Hart as a muscle**
Cardiac irritability, contractibility and physiologic morfology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
Solutions maintaining beat of hart
6 Physiologic morfology
61 **Conduction of stimulation**

612.173 **Work of the hart**
Chemic, dynamic and thermic fenomena
1 Chemic composition of hart
2 Intracardiac pressure
.174 **Effect of toxins on the hart**
1 Atropin
2 Anesthetics
.176 **Hart in disease**
.178 **Innervation of hart**
1 Pneumogastric or vagus
See also 612.819911
2 Sympathetic
See also 612.897
3 Ganglions of hart
4 Action of cerebrum
See also 612.8228
5 Action of medulla oblongata
See also 612.828
6 Cardiac syncopes and reflexes
7 Depressor nerv
.179 **Prenatal circulation**
.18 Vasomotors
.181 **Action of nervs and nerv centers on bloodvessels**
1 Action of cerebrum
2 " " medulla oblongata
3 " " spinal cord
4 " " great sympathetic
.182 **Influence of vasomotors on arterial pressure**
.183 **Vasoconstrictors**
.184 **Vasodilators**
.185 **Effect of poisons on vasomotors**
.186 **Vasomotors in disease**
.187 **Vasomotors in organs**
Divide like 612 Physiology; e. g.
612.18724 Effect of vasomotors on lung capacity
612.1878421 Effect of vasomotors on iris
612.1875 Influence of vasomotors on temperature
612.187556 Vasomotors in fever
.188 **Erectil tissues**
See also 612.612
.189 **Change of volume of organs**
Plethysmografy Quantity of blood in various organs
.19 Action of special organs on circulation
.2 **Respiration**
See also 612.793 Cutaneous respiration
.21 Respiratory movements Mechanics of respiration
.211 **Pneumografy Respiratory types**
Respiratory excursion
.212 **Pulmonary elasticity and intrapleural pressure**
Intrapulmonary and intrathoracic respirations

612.213 **Influence of respiration on circulation**
See also 612.1461
.215 **Special physiology of respiratory apparatus**
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385
.216 **Respiratory frequence and rhythm**
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration
.217 **Action of muscles Mechanical fenomena**
Dimensions and expansibility of thorax
1 Action of diafram
.219 **Other mechanical fenomena**
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
.22 Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)
.221 **Technic of gaseous exchange**
.222 **Effect of various agents on gaseous exchange**
.223 **Effect of quality of air**
Hyperpnea, polypnea, thermopnea
1 Composition of abnormal air
11 **Carbonic acid**
12 **Activ oxygen or ozone**
2 Influence of barometric pressure
See 612.27
3 Influence of climate
.224 **Influence of food**
.225 " " **temperature**
.226 **Effect of disease and intoxications**
.227 **Influence of organs**
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
3 " " circulation
.229 **Influence of animal kind**
Variability of gaseous exchange in animal kinds
1 Influence of stature
2 Aquatic animals

612.23 Gaseous exchange in the blood
.231 Expired air Respiratory quotient
.232 Asphyxiation
In legal medicin
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO_2)
.233 Respiration in confined air
.234 Toxic action of carbonous oxid (CO)
See also 612.11114 and 615.96
.235 Exchange of gases between air and blood
1 Theory
.24 Lung capacity Vital capacity
Residual, reserv, respiratory or tidal and complemental air
.25 Exhalation of water from lungs
.26 Internal or tissue respiration
.261 Exchange of gases between tissues and blood
.262 Accumulation of oxygen in tissues (cells)
.27 Influence of barometric pressure on living beings
See also 612.01441. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 Toxic effects of oxygen and ozone
.274 Effect of more than normal pressure
Physiologic aspect of caisson disease
.275 Effect of less than normal pressure
1 Physiologic and therapeutic effects of high altitudes
11 Mountain and aeronautic sickness
.276 Effect of pressure on fermentations
Effect of removing pressure
.279 Maximum pressures
Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 Action of cerebrum and of will
.282 " " medulla oblongata and vagus nucleus
.283 " " spinal cord
.284 " " chemic substances and abnormal blood gases
1 Toxicology of center
2 Apnea, acapnea, dyspnea
See also 612.232
.287 Action of pneumogastric or vagus nervs
See also 612.819912
.283 Respiratory reflexes
See also 612.8332
.29 Influence of other organs on respiration

612.3 **Digestion**

May be subdivided by 01–09 for form, if needed

.31 Mouth Teeth Salivary glands

.311 **Mastication and prehension**

1 Physiology of teeth

.312 **Deglutition or swallowing**

2 Tonsils 3 Tung

313 **Salivary glands Saliva**

1 Composition of normal saliva

2 Action of saliva on food · Ptyalin

3 Salivary secretion

31 Toxic effect of saliva

4 Action of chemic substances

See also Therapeutics, 615.741 Sialagogs

41 Elimination

42 Action of atropin and of pilocarpin

5 Physiologic morfology

6 Pathologic changes of saliva

61 Salivary fistulas

63 Bacteriology

64 Salivary calculi

69 Abnormal substances

8 Action of nervous system on salivary secretion

82 Action of sympathetic nervs

See also 612.898

87 Action of chorda tympani

See also 612.81977

.314 **Salivary venoms and venoms in general**

1 Chemic composition

2 Toxic action

3 Natural immunity and resistance to venoms

4 Attenuation and neutralization of venoms

5 Treatment of venom poisoning Serotherapy

See 615.94 Duplicated here for physiologist only

51 Antitoxins

See also 612.11822 Antitoxins of serum

.315 **Esofagus**

.32 Stomach Gastric juice Vomiting

.321 **Normal composition of gastric juice**

1 Gastric fistulas, experimental and pathologic

2 Determination of acid in gastric juice

5 Proteolytic férments: pepsin

6 Milk curdling ferments, inorganic and organic

.322 **Digestiv power of gastric juice**

1 Starch and analogs

2 Sugars " "

3 Fats " "

4 Albuminoids

45 Nature and properties of peptones

See also 612.39817

5 Antiputrefactiv properties of gastric juice

6 Mixture of bile or other secretions of digestiv tract and gastric juice

612.3227 Absorption in stomach and transformation (into mucus) of products of digestion
See also 612.386
72 Absorption and transformation of sugars
73 " " " " fats
74 " " " " nitrogenous substances (peptones)
75 " " " " salts Effect on stomach
.323 **Stomach secretion**
2 Formation and destruction of pepsin
21 Pepsin in urin
3 Formation of hydrochloric acid (HCl)
4 Autodigestion of stomach
5 Effects of removing stomach
.324 **Action of chemic substances (poisons) on gastric secretion and their elimination**
.325 **Physiologic morfology of stomach**
Relation between morfologic changes and stimulation
.326 **Pathologic changes of stomach secretion**
3 Bacteriology
5 Gastric juice in disease
9 Abnormal substances in gastric juice
.327 **Movements of stomach**
1 Muscular irritability of stomach
2 Motor action of pneumogastric See also 612.819913
3 Evacuation of stomach
5 Merycism and rumination
7 Vomiting
8 Action of emetics or vomitories
See also under therapeutics, 615.731 Emetics
.328 **Action of nervous system on stomach**
1 Psychic influence on stomach secretions
8 Sensibility of stomach
.33 Intestin
Middle intestin and glands of middle intestin in invertebrates
.331 **Normal composition of intestinal juice**
1 Intestinal fistulas, experimental and pathologic
7 Intestinal gases Fermentiv process due to bacteria
.332 **Intestinal digestion**
2 Carbohydrates
3 Fats
4 Albuminoids and derivates Erepsin
7 Absorption and changes of food in intestin
See also 612.386
72 Carbohydrates
73 Fats Chyliferous vessels See also 612.426
74 Albuminoid derivates
75 Other substances
751 Inorganic substances Water and salts
8 Action of intestinal juice on other secretions and ferments
See also 612.3226
84 Enterokinasis and secretin

612.333 Intestinal secretion
.334 Action of chemic substances on the intestin and their elimination
4 Purgativs
See also therapeutics, 615.732 Cathartics
.335 Physiologic morfology of intestin
5 Intestinal circulation
.336 Pathologic changes of intestinal secretion
3 Parasites and microbes
31 Bacterial fermentation Physiologic effect of microbes
.337 Movements of intestin
1 Movement of chyme in intestin
.338 Action of nervous system on intestin
1 Action of nervs and nerv centers on secretion
.339 Peritoneum Omentum
1 Absorption in peritoneum
See also 612.387
.34 Pancreas Pancreatic juice
.341 Normal composition of pancreatic juice
1 Pancreatic fistulas
.342 Action of pancreatic juice on food Tryptic digestion
1 Starches and analogs
2 Sugars
3 Fats Steapsin or ptyalin
4 Albuminoids Trypsinogen Trypsin
5 Effect on other digestiv fenomena
51 On bile and gastric juice
See also 612.3226
.343 Pancreatic secretion
.344 Action of special substances on pancreatic secretion and juice
.345 Physiologic morfology
Relation between morfologic changes and stimulation
.346 Pathologic changes of pancreatic juice
.348 Action of nervous system on pancreas
.349 Pancreas as an internal gland Ilands of Langerhans
1 Pancreatic glycosuria
Physiologic fenomena only. See also 612.35216, 612.46621, and diseases 616.61, where most material belongs
.35 Liver
.351 Hepatic circulation and chemic composition
1 Chemic composition
11 Ferments
5 Hepatic circulation
51 Ligature of portal vein
6 Effect of extracts from hepatic tissue
61 Hepatic opotherapy

612.352 **Effect of liver on absorbd foods**
1 Glycogenesis Glycogen of liver and its tissues
See also 612.396112 Chemistry of glycogen
11 Determination of amount of sugar and glycogen: technic
12 Sugar of the blood See also 612.122
13 Action of nervs on glycogenic function Experimental diabetes
14 Fermentation of glycogen Glycogenolysis
16 Glycosuria (diabetes) in general
See also 612.3491, 612.46621 and pathology 616.63
17 Glycogen of other organs
18 Glycogen of muscles See also 612.74411
19 Relations between glycogenesis and alimentation
2 Fat Adipogenic function
.353 **Hepatic chemic fenomena**
1 Formation of urea See also 612.4612
.354 **Action of poisons on liver**
1 Toxic steatoses
2 Antitoxic action of liver
.355 **Temperature of liver** See also 612.563
.356 **Hematopoietic function of liver and effect on blood**
See also 612.119
.357 **Bile**
1 Normal composition of bile
11 Biliary fistulas
13 Coloring matter Bile pigments
Bilirubin, biliverdin For origin see 33 below
14 Mineral salts
15 Biliary acids and their salts
Glycocholic and taurocholic acids
2 Action of bile in the intestin
Final fate of bile
3 Bile secretion
31 Quantity
32 Origin of bile acids
33 " " " pigments
4 Action of chemic substances on bile secretion
See also therapeutics, 615.742 Cholagogs
5 Elimination of poisons by bile
6 Pathologic physiology of bile
For general works and medical aspect see 616.36
64 Biliary calculi
65 Obliteration of bile ducts Icterus Jaundis Cholemia
See also pathology, 616.36 Liver and bile ducts
66 Bile in disease
67 Toxic effects of bile
69 Abnormal biliary substances
7 Biliary excretion Physiology of ducts
71 Gall bladder
72 Absorption in biliary ducts
73 Contractility of ducts
8 Innervation of bile ducts
.358 **Action of nervous system on liver**
.359 **Ablation, regeneration, cicatrization and other morfologic fenomena**
1 Volume of liver
2 Fatty or starchy degeneration

612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
.361 Chemic composition of excrements
.363 Cecal digestion Vermiform appendix
.364 Absorption in large intestin
.365 Defecation
.366 Rectum
.367 Movements of large intestin
.368 Innervation " " "
.38 Absorption
.381 Imbibition Transudations and exudations Edema
.382 Osmosis See also 612.0144621
1 Dialysis of mineral salts
2 " " sugars
4 " " albuminoids
.383 Diffusion
.384 Absorption by skin
See also 612.79
.385 Absorption by lungs
See also 612.2159
.386 Absorption in digestiv tract
General; see also specific part of tract
.387 Absorption by mucous and serous membranes
See also 612.3391
.388 Parenchymatous absorption
Absorption by cellular tissue (after injection)
.39 Nutrition Metabolism
.391 Hunger Thirst Inanition
3 Hunger, thirst and nervous centers Mechanical action of hunger
4 Inanition in man
6 " " disease
9 " " animals
92 Inanition in poikilothermic animals
96 " " homoiothermic "
.392 Foods
1 Assimilation of carbon
2 " " nitrogen
See also 612.46123
3 Assimilation of water
4 " of sulfur, fosforus and iron
3 Sulfur 4 Fosforus 5 Iron
5 Thermodynamic value of food
6 Mineral foods
1 Sodium salts 2 Potassium salts 3 Calcium salts
- Vegetable foods
71 Vegetarianism See also hygiene, 613.26 Vegetable diet
72 Fruits and fresh vegetables
73 Cereals
74 Bred

612.3928 Animal food
See also hygiene, 613.28 Meats in diet
81 Meats
82 Soup Meat extracts
83 Egs
84 Milk
See also 612.664
841 Sterilization and artificial changes in milk
85 Cheese
86 Butter
9 Special artificial foods
.393 **Condiments and stimulants**
1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
2 Coffee Tea
See also hygiene of beverages, 613.37
9 Condiments
.394 **Ration or food requirement during growth**
2 Of man Nourishment of newborn
3 " animals
.395 **Ration or food requirement of adults**
1 Working ration Normal ration
12 Working ration for man
13 " " " animals
2 Subsistence ration
22 Subsistence ration for man
23 " " " animals
5 Relations of ration to external conditions, e. g. climate
6 Food requirements in disease
.396 **Carbohydrates**
1 Chemic composition
11 Polysaccharids
111 Starch Inulin
112 Glycogen
113 Cellulose
12 Gums and analogs: dextrin
13 Monosaccharids: glucose, mannose, gallactose, fructose, etc.
14 Disaccharids: sugar, lactose, maltose, etc.
17 Combined carbohydrates
See 612.3981453 Glycoproteids
172 Chitin
175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
19 Other carbohydrates: pentose, inusitum
2 Changes of sugars in organism Glycolysis
21 Products of carbohydrates; e. g. glycuronic acid
22 Alcohol in tissues
3 Hydrolytic ferments of carbohydrates and analogs
31 Amylasis, inulasis, cytasis, etc.
32 Saccharoclastic ferments Inversion
4 Formation of carbohydrates in organism
5 Thermodynamic value of carbohydrates
7 Quantity of carbohydrates in foods and tissues

612.397 **Fats**
1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3952
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterin
82 Lecithin
.398 **Albuminoids and nitrogenous substances**
1 Chemic composition
11 Composit albuminoids
For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumins, simple phosphorated albuminoids
138 Protamins
139 Other albumins
14 Other albuminoids
145 Proteids
Albumin + a complex organic compound
1 Nucleoproteids
Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
Albumin + an iron compound. See also 612.11111
3 Glycoproteids
Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: glutin, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
5 Thermodynamic value of albumins and derivates
Albumin as food

612.3986 Formation of albuminoids in general
7 Quantity of albuminoids in food and tissues
8 Toxins, antitoxins Chemistry of poisons
For action, see 612.11821; for animal poisons, see 612.314; for ptomains, leucomains, etc. see 612.398195 above

.4 **Glandular system Secretion Excretion**
.401 Effect of circulation on glands
.402 " " glands " circulation and blood
.403 " " " " nutrition
.404 " " nutrition " glands
.405 Physics and chemistry of secretion
.407 Effect of glands on nervous system
.408 " " nervous system on glands
See also 612.817
.409 Physiologic morfology of secretions and glandular epitheliums
.41 Spleen
.411 **Hematopoietic action Effect of spleen on blood**
.412 **Splenotomy Circulation in spleen**
.413 **Contractility of spleen**
.414 **Spleen in relation to other organs**
1 Effect on digestion
.416 **Function of spleen in disease, in experimental infections and in wounds**
.418 **Chemic fenomena**
.42 Lymfatic system and lymf
For lymfocytes see 612.112
.421 **Lymf Chemic composition**
.422 **Quantity and origin of lymf**
.423 **Lymfatic circulation**
1 Thoracic duct
.424 Lymfatic harts
.425 **Innervation of lymfatic system**
.426 **Lymfatic absorption**
See also 612.33273
.427 **Lymfatic fistulas**
.428 **Lymf glands**
.43 Thymus
.44 Thyroid gland
.441 **Chemic composition**
.442 **Parathyroid glands or accessory thyroids**
.445 **Thyroidectomy Destruction of thyroid**
Including pathologic destruction
.448 **Effects of thyroid extracts**
.45 Suprarenal capsules
.451 **Chemic composition**
.455 **Excision and destruction**
.458 **Effect of capsular extract**

612.46 Kidneys Urin

.461 Chemic composition of urin

1 Reaction and physical properties

11 Reaction

12 Density

13 Temperature

17 Urinary technology

174 Staining reactions

175 Spectroscopic examinations

176 Polarimetric "

177 Histochemic "

178 Pathologic urinary technology

179 Densimetry and cryoscopy of urin

2 Urea and nitrogen compounds

21 Determination of quantity of urea Ureameters

22 Determination of total nitrogen

23 Excretion and metabolism of nitrogen

231 In relation to alimentation

232 " " " work

234 Effect of chemic substances (poisons)

235 Influence of temperature

236 " " disease

238 " " nervous system

239 " " animal kind

Variability of process in animal kingdom

25 Uric acid See also 612.398193

251 Determination of quantity

254 In animals

255 " normal man

256 " man in disease: uric diathesis

259 " other tissues and fluids than urin

26 Other nitrogen products of urin

261 Bases Xanthin bases See also 612.398195

262 Ptomains

263 Allantoin

264 Peptones See also 612.46668, 612.39817

266 Hippuric acid

267 Ammonium and other urates See also 612.398194

268 Ferments See also 612.32321

269 Physiologic albuminuria

27 Coloring matter Pigments: urobilin, urochrome

6 Salin substances in urin

61 Chlorin salts

62 Fosforus and its compounds

63 Sulfur and its compounds

64 Gases of urin

8 Nonnitrogenous organic constituents of normal urin

82 Sugars Physiologic glycosuria

.462 Urinary toxicity

1 Internal secretion of kidneys

.463 Urinary secretion

1 Quantity of urin

2 Elimination of urin

4 Renal circulation

5 Influence of blood and circulation

6 Comparativ secretion of the two kidneys

8 Effect of nervous system

81 Glycosuria, polyuria after lesion of medulla oblongata

612.464 Action of poisons on urinary secretion and their elimination
1 Diuretics Polyuria
See also 615.761 Diuretics in therapeutics
2 Toxic albuminurias
See also 612.46622
3 Elimination of poisons by urin
4 Toxic glycosuria Phlorizin
See also 612.46621
.465 Physiologic morfology of kidneys
.466 Pathologic physiology of kidneys and urin
1 Urinary calculi
2 Urin in disease
21 Urin in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216
22 Urin in albuminuria Albuminuria in general
See also 612.461269, 612.4642 and 616.634
23 Resection and lesion of kidneys, experimental and pathologic Ligature of ureter, etc.
231 Uremia See also 616.638
26 Urin in fever
6 Abnormal substances in urin
61 Acetonuria Acidosis
62 Chyluria
63 Other abnormal products of metabolism
631 Glycuronic acid See also 612.39621
64 Products of intestinal putrefaction Indican
67 Biliary pigments Choluria
68 Albuminoses and peptones
69 Hematuria and hemoglobinuria
7 Urinary fermentation Putrefaction of urin
.467 Urinary discharge
1 Physiology of bladder, ureters and urethra
11 Micturition
2 Absorption in urinary passages
3 Innervation of vesical apparatus
For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638
.49 Other glands and secretions
.491 Bone marrow
.492 Hypophysis or pituitary gland Somatic brain
.493 Scent glands of animals
.494 Bartholini's glands
495 Carotid gland
499 Other glands
See also 612.664, 612.792

612.5 Animal heat
.51 Sources Thermogenesis Calorimetry
.511 Direct calorimetry
6 Calorimetry in disease
.512 Indirect calorimetry
1 Influence of alimentation
3 Effect of respiration
.52 Loss of heat Radiation Thermolysis
Conduction of animal tissues
.521 Cutaneous radiation
1 Physiology of clothing
.523 Loss by pulmonary evaporation
.524 " " cutaneous evaporation
.53 Regulation of temperature Heat balance Thermotaxis
.531 Influence of vasomotors
.532 " " muscular movement
See also 612.7453
.533 Effect of perspiration
.534 " " respiration Thermic polypnea
.535 Thermic centers
.54 Other conditions affecting temperature and thermogenesis
.541 Effect of baths
.543 " " inanition
See also 612.391
.544 Effect of poisons
.55 Variations in production and regulation of heat
.556 In disease: fevers
.56 Temperature of body
.563 Thermic topografy
.58 Hibernating animals
.59 Heat and cold; effect on organism
Subdivisable with o like 612; e.'g. 612.59074 Effect on muscles
612.5908 " nervous system
See also 612.01443
.591 Effect of heat Deth from heat Thermic rigidity
.592 Effect of cold Deth from cold Rigidity from cold

612.6 Reproduction and generation Development

.601 **Spontaneous generation**
See origin and beginnings of life. 576.1

.602 **Transplantation Animal grafting**
May be divided by organs like 612

.603 **Cicatrization Regeneration**
May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye

.604 **Reproduction of lower organisms**
Protozoa, etc.

1 Asexual: fission, division, gemmation or budding or sprouting

2 Sexual: conjugation or concrescence

5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 **Morfogenesis in general Heredity**
See 575 Evolution

1 Heredity

2 Variation, including artificial

3 Hybridization

4 Tumors
Only for physiologic aspect, for pathology see 616.992

.606 **Proportion and determination of sexes**
See also Biology, 577.8 Sexes in nature, sexuality

.607 **Consanguinity Incest**

.698 **Hermafroditism**

.609 **Theory of evolution Natural selection, darwinism**
See 575 Evolution

.61 Male functions of generation
For semen see 612.616

.612 Erection
Including also the function in general, in either or both sexes See also 612.188

.613 Copulation and fecundation

1 Artificial "

2 Parthenogenesis

21 Artificial parthenogenesis

.016 Testicles Orchitic fluid Sperm

1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general

2 Physiology of spermatozoa

3 Testicles as internal glands Interstitial cells

.617 Appendages of male organs: seminiferous ducts, seminal vesicles

.62 Female functions of generation Ovulation
See also 612.612 and 612.6161

.621 Physiology of ovaries
See also 612.6303

1 Ablation or injury of ovary, experimental or pathologic
See also 612.6161

.622 Physiology of ovum

.627 Physiology of uterus

1 Uterin circulation

8 Innervation of uterus

612.63 Impregnation Pregnancy Parturition
See also 612.612
01 Period of pregnancy
03 Ovary in pregnancy Corpus luteum
.64 Development of embryo
For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
.646 **Physiology of embryo**
.647 " " **fetus**
.648 " " **newborn**
.649 **Appendages of embryo Amniotic fluid**
See also 611.0138 Fetal appendages (in embryology)
.65 Growth after birth
See also 612.64
.651 **Metamorfosis of lower animals Larvae**
.66 Period of full development
.661 **Puberty**
.662 **Menstruation**
.663 **Fecundity**
.664 **Lactation and milk**
Physiology of mammary glands
1 Physics and chemistry of milk
12 Sugars
13 Fats Butter
14 Albuminoids
16 Mineral substances
17 Lactic fermentation Milk ferments
171 Milk curdling ferments Coagulation of milk
18 Other constituents
181 Abnormal substances
19 Comparison of milk of various animals
191 Human milk
3 Lactic secretion
31 Quantity
32 Formation of sugars
33 " " fats
34 " " albuminoids
35 Colostrum
36 Effect of various agents on secretion
4 Action of poisons on milk secretion and their elimination
5 Physiologic morfology of milk
6 Pathologic changes in lactic secretion
7 Digestion of milk
8 Innervation of mammary glands
.67 Period of decline Deth
See also 577.7
.68 Longevity
See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

612.7 Motor and vocal apparatus Skin

.71 Protoplasm
See also 612.014 General physiology of cells and organisms

.72 Vibratil cilia

.73 Smooth muscle
Divided like 612.74

.74 Striped muscle
Muscle in general, including smooth muscle

.741 Muscular contraction

1 Myografy
12 Single contraction of muscle fiber Jerk contraction
13 Tetanic contraction
14 Tonic contraction
15 Influence of chemic substances on muscles
16 Myografy in disease

2 Change of volume of muscle

3 Muscle wave

4 Elasticity of muscle
Myotonometry Effect of weight Tension

6 Muscular irritability Influence of blood
61 Circulation in muscles
62 Effect of stimulation
63 " " electricity

7 Latent period
Time elapsing between moment of stimulation and response by an activ tissue

8 Muscle murmur

9 Physiologic morfology of muscles
Histologic phenomena of contraction

.742 Muscles after deth Rigor mortis

1 Chemic phenomena after deth: autolysis

.743 Electric phenomena of muscles

.744 Chemistry of muscle

1 Normal composition
11 Carbohydrates
See also 612.35218 Glycogen of muscles
14 Albuminoids
15 Other organic substances
16 Mineral substances
Including water Muscle salts
17 Gases

2 Chemic effects of muscular contraction
21 Fatigue
211 Ergografy Dynamometry Work in general
22 Consumption of oxygen and production of CO_2 in work
23 Function of carbohydrates
24 Relation of chemic changes to work Metabolism in relation to work

.745 General effect on organism of muscular contraction or work
See also 612.532

1 Dynamic effects

3 Thermic "

5 Relations between work and heat

612.746 **Pathologic physiology of muscles**
1 Contractures
4 Tremors Shuddering
5 Nutrition of muscles Atrofy Degeneration Regeneration
Including nerv influence See also 612.818
.75 Bones, joints and connectiv tissues
.751 **Chemic composition of bone and connectiv tissue**
See also 612.398146
1 Bone
2 Cartilage
3 Connectiv tissue
.752 **Nutrition of bones**
.753 **Growth, cicatrization and regeneration of bone**
.754 **Periosteum Perichondrium**
.755 **Tendons**
.76 Locomotion
Principles of animal mechanism; comparativ study of locomotion preferably clast in 591.47
.761 **Chronofotografy: technic**
.763 **Special movements Combined movements**
Physiology of violin playing, etc.
.766 **Human locomotion**
1 Physiology of exercise and work
2 Rest
.767 **Animal locomotion Special organs of locomotion**
Swimming bladder of fishes
.768 Flight
.769 **Biologic adaptation of movement**
.77 Electric and phosphorescent animals
Preferably clast 591.59
.771 Electric animals
.772 Phosphorescent animals
.78 Voice and speech
See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
.781 **Sensibility of larynx**
.782 **Movements and innervation of larynx**
1 Influence of spinal accessory nerv
See also 612.819923
2 Influence of pneumogastric
See also 612.819917
3 Laryngoscopy
4 Movements of glottis
5 Epiglottis
.783 **Artificial larynx**
.784 **Singing Timbre, quality Voice register**
.785 **Larynx in deglutition and other laryngeal functions**
See also 612.312
.786 Organs of sound in lower animals
.788 Larynx of birds

612.789 **Speech Language**
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
See also 616.855
4 Vowels and consonants
5 Ventriloquism
See also 791 Ventriloquism as an amusement

.79 Skin
.790:5 Chemic composition
.791 **Absorption**
See also 612.384
1 Penetration by solids
2 Absorption of fats
3 " " solutions
4 " " liquids
5 " " gases
.792 **Cutaneous glands and secretion**
1 Swet Chemic composition
12 Toxic action of swet
4 Action of chemic substances on swet secretion
42 Elimination of poisons by swet
5 Physiologic morfology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions
.793 **Cutaneous respiration**
4 Effect of suspended transpiration; closing pores by liniments, etc.
5 Effect of chemic substances on skin
See also 612.7924
.794 **Cutaneous sensibility**
.795 **Electric conductibility and resistance of skin**
See also 612.014422
.796 **Chromatophores and skin pigments**
.798 **Trofic nerves of skin**
.799 **Growth and physiology of nails and hair**

612.8 Nervous system

.801 **Theory of nervous system and innervation**
1 Dynamogenesis and inhibition
2 Action of nervous system on chemic phenomena
3 Effect on morfogeny and evolution
See also 612.605

.81 Peripheral nervous system Nerv fibers

.811 **Distinction between sensory and motor nervs**
3 Ganglions of sensory nervs
4 Influence of sensibility on movement and of movement on sensibility

.812 **Recurrent sensibility**

.813 **Electric phenomena of nervs and muscles**
Muscle-nerv experiments as indicativ of nervous process
For muscle phenomena see 612.743
2 Negativ variations
3 Electrotonus

.814 **Chemic and thermic phenomena of nervous stimulation**
For stimulation of nerv centers see 612.8222

.815 **Physiologic morfology of nervous stimulation**
1 Sensory terminations
2 Motor "

.816 **Irritability of nervs and muscles**
Nerv-muscle or nerv-gland physiology
1 Action of electricity
2 Theories of nerv waves
3 Nervous conductibility
4 Effect of blood on nervs Anemia
5 Rapidity of nerv waves
6 Nerv fatigue
7 Action of chemic substances on nervous irritability

.817 **Effect of nervs on muscles and glands**
1 Chemic substances Curare poisons
2 Voluntary contraction
3 Tonicity Atrofy of muscles after cutting nervs, etc.
See also 612.7465

.818 **Trofic nervs**
5 Degeneration, regeneration and cicatrization
1 Degeneration 2 Regeneration 3 Cicatrization

612.819 Special nervs

Whenever possible class according to function rather than according to a particular nerv, classing here only special nerv physiology

1 1st pair: olfactory

2 2d pair: optic

See also 612.843

3 3d pair: motoroculi or oculomoto

31 **Innervation of iris**

See also 612.8422

32 **Innervation of eyelids**

See also 612.847

33 **Innervation of eye muscles**

4 4th pair: trochlear or pathetic

5 5th " : trigeminal

52 **Sensory action**

53 **Trofic action**

6 6th pair: external oculomoto or abducent

7 7th " : facial

71 **Effect on facial muscles**

73 " " **respiration**

74 " " **hearing**

75 " " **deglutition and taste**

77 " " **salivation Chorda tympani**

See also 612.31387

78 **Pathology Facial paralysis**

8 8th pair: auditory

See also 612.8585

9 9th pair: glossopharyngeal

91 10th " : pneumogastric or vagus

911 **Effect on hart and circulation**

See also 612.1781

912 **Effect on respiration**

See also 612.287

913 **Effect on digestiv organs**

See also 612.328, 612.338, 612.348, 612.358, 612.368

915 **Effect on kidneys and other glands**

See also 612.4

917 **Effect on voice production**

See also 612.7822

918 **Section of vagus and pneumogastric**

92 11th pair: spinal accessory

921 **Anastomosis with vagus**

922 **Innervation of respiratory organs**

See also 612.28

923 **Innervation of vocal organs**

See also 612.7893

93 12th pair: hypoglossal

94 Spinal nervs in particular

941 **Phrenic nerv**

612.82 Nervous centers Brain

.821 **Physiologic psychology**

Usually better clast in 130 Mind and body

1 Time of reaction to stimulation Psychometry

2 Attention Memory Association Imagination

3 Instinct Intelligence Emotions Sensibility

31 Comparativ psychology

311 Nonautomatic actions of animals Anticlisis

312 Automatic " " "

For physiologic aspect see 612.829

313 Instincts of animals Behavior See also 591.5

33 Emotions Sensibility

34 Inhibition of movement Will Habit Impulse

35 Associated movements

4 Action of poisons on intelligence

See also 613.8 Hygiene of nervous system
" " 615.9 Toxicology

41 Alkaloids

42 Nonalkaloid anesthetics

See also Therapeutics, 615.96 Cerebral poisons

44 Alcohol

See also Therapeutics, 615.964 Alcohol as cerebral poison
Pathology 616.861 Alcoholism

5 Effect of disease on intelligence

6 Psychic reflexes

7 Sleep Hypnotism

See also 135 Sleep, Dreams

71 Hypnotism See also 134 Mesmerism, Hypnotism

73 Theories of sleep

74 Cerebral circulation in sleep

75 Chemic phenomena of organism in sleep

76 Dreams

8 Sense in general and theories of perception

88 Psychophysical laws

89 Sensory delusions

For optic illusions see also 612.84374

.822 **Nerv cells and nerv centers**

1 Chemistry of nervous tissue

Metabolism in nervs

2 Chemic fenomena of nervous excitation

For stimulation of nerv fibers see 612.814

3 Electromotiv fenomena of nervous excitation

4 Thermic " " " "

5 Physiologic morfology " " "

53 Effects of fatigue

54 " " poisons

56 Degeneration and regeneration of centers

6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers

61 Movement in a circle (motus circularis, manége)

7 Decapitation

8 Action of central nervous system on chemic phenomena of organism

See also 612.01538, 612.8012

81 Effect of chemic changes on centers

612.823 **Weight and general morfology of brain**
5 Conduction in centers
.824 **Cerebral circulation**
1 Neurolymf, neurolympha or cerebrospinal fluid Meninges Choroid plexus
2 Brain movements
3 Cerebral vasomotors
4 " anemia
5 Pressure on nerv centers
55 **Compression and concussion of brain Abnormal pressure**
6 Temperature of blood in nerv centers
Effect of abnormal pressure
.825 **Cerebral convolutions (cortex)**
1 Cortical excitability
2 Psychomotiv centers Localizations
23 **Inhibitory actions**
See also 612.8338
24 **Localization in man**
249 Speech Aphasia
See also 612.7893
25 Localization in animals
26 **Topografy of localizations**
261 Frontal lobe
262 Occipital "
263 Parietal "
264 Temporal "
265 Central "
266 Olfactory "
3 Cortical epilepsy
See also 616.853
5 Sensory functions of convolutions
Convolutions as seat of senses
54 **Sight**
55 **Hearing**
56 **Smell**
57 **Taste**
58 **Muscular sense**
See also 612.885
59 **Touch**
See also 612.88
8 Intellectual functions
Only for physiology of these functions
.826 **Cerebral ganglions, commissures, etc.**
1 Optostriate body and callosum
Or optic thalami, striatum and callosum
2 Conduction in the brain
See also 612.8235
3 Crura or cerebral peduncles Epiphysis Infundibulum
5 Quadrigeminum Optic lobes
7 Cerebellar peduncles or prepeduncles
8 Pons

612.827 **Cerebellum**

.828 **Medulla oblongata or postoblongata**

.829 **Special physiology of central nervous system of invertebrates**

See also 612.8226

1 Regulating effect of ganglia Circular movements (manége)

2 Chain of ganglions Network of nervs, or rete nervosum

3 Reflex movement

Locomotion in respect to physiology of nervous system

31 Reflexes proper

32 Rhythm Refractory period

33 Tonicity Tonic reflex

34 Coordination

.83 Spinal cord or myel

.831 **Conduction in the cord**

See also 612.8235

.832 **Excitability of cord**

.833 **Reflex action**

Subdivide like 612; e. g. 612.83317 Cardiac reflexes
612.83362 Uterin "
612.8337 Limb reflexes; knee jerk

8 Action of superior nerv centers on reflexes

9 Other phenomena of reflex action

91 **Rapidity of reflexes**

92 **Pathology**

93 **Effect of anemia**

94 **Action of poisons on reflexes**

95 **Rhythm in general**

951 Refractory period

96 **Coordination**

97 **Other fenomena**

e. g. reflexes according to nature of impulse: fatigue, etc.

.834 **Cord as center of innervation**

.835 **Degeneration and regeneration of cord Atrofies**

.84 Physiologic optics Sight

.841 **Fibrous tunics of eye**

1 Cornea Conjunctiva Anterior chamber

5 Sclera

.842 **Vascular tunics Iris Choroid Ciliary body**

1 Iris accommodation

See also 612.844 for general papers on accommodation

11 **Pupillometers**

2 Action of nervs and nerv centers on pupil

3 Effects of light

4 Action of chemic substances on iris Atropin See 615.784

5 Choroid Eye pigments

6 Ocular circulation Intraocular pressure

61 **Ofthalmometers**

612.843 **Optic nerv Retina**
See also 612.8192 2d pair of cranial nervs; optic
1 Physiologic morfology Retinal purple
12 **Ofthalmoscope**
13 **Retinal circulation**
14 " **purple**
15 **Physiologic morfology of retina**
2 Irradiation
3 Color sense Chromatic sensibility
31 **Color sight**
Power to distinguish colors
For color blindness see 612.8455; 617.75
32 **Sensitiveness to color**
For pathology of chromatic sensibility see 612.8455
34 **Mixture of colors**
35 **Contrast of colors**
4 Entoptic fenomena
5 Persistence of retinal impressions
6 Field of vision Visual acuteness and sensibility
61 **Photometry**
Photometric technic
62 **Field of vision**
63 **Visual acuteness and sensibility**
7 Conduction in the brain Perception
71 **Histology of fibrillae Center of sight**
72 **Optic perceptions Localization of image in space**
721 Binocular perception Stereoscopy Perception of distance, size and form
Perception of differences in hight of surface For movement see 612.8462
73 **Impression of color suggested by sound, auditus coloratus**
74 **Optic illusions**
75 **Observations on those born blind**
78 **Degenerations of optic nerv and fibrillae**
.844 **Refractory apparatus Ocular refraction**
See also 612.8421
1 Crystallin lens
4 Aqueous humor
7 Vitreous humor
.845 **Functional disorders or pathology of sight**
See also 617.75
1 Myopia
2 Hypermetropia
3 Astigmatism
4 Presbyopia
5 Daltonism Color blindness
See also 612.84331 Color sight; 617.75 Disorders of vision
6 Hemeralopia

612.846 **Movements of eye**
2 Binocular vision
For perception see 612.843721
3 Action of 3d cranial or oculomoto nerv
4 " " 4th " or trochlear nerv
6 " " 6th " or abducent nerv
8 Strabismus Diplopia
.847 **Palpebral and lacrimal apparatus**
.85 Hearing
.851 **External ear: functions**
.854 **Middle ear**
.855 Tympanic membrane or drumhed Tympanum
.856 Eustachian tube
.857 Bones
.858 **Internal ear**
1 Conduction of sound in internal ear
2 Utricle Saccule
3 Semicircular canals
See also 612.8863 and 616.841 Vertigo
4 Cochlea Corti's organ or fibers Spiral organ
5 Acoustic nerv
6 Endolymph
7 Acoustic perception Conduction of acoustic excitation in the brain
71 **Auditory acuteness**
72 **Auditory center in brain**
See also 612.82555
73 **Subjectiv sensations**
74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
75 **Binaural hearing**
751 Localization of sound in space Estimation and effect of distance
76 **Sensibility of living beings to sound and vibrations Otocysts**
8 Auditory reflexes
.86 Smell
See also 612.82556 Seat of smell
.867 **Perceptions Conduction in the brain**
.87 Taste
.875 **Function of lingual nerv**
See also 612.8195
.877 **Function of chorda tympani**
See also 612.81977
.879 **Function of glossopharyngeal nerv**
See also 612.8199

612.88 Touch Tactil sense Equilibrium

.881 Notion of space

.882 Sense of temperature

.883 Sense of pressure

Including all related phenomena; e. g. tickling

1 Esthesiometers

.884 Sensibility to pain

.885 Muscular sense Power sense

.886 Sense of equilibrium

1 Sense of direction and orientation

2 Seasickness

3 Vertigo

See also 612.8583

9 Function of special organs

Function of lateral line of fishes and other special organs of owe animals

.887 Anesthesia, hyperesthesia, synesthesia

.89 Sympathetic nervous system

.8903 Trofic action

.8905 Reflex phenomena

.891 Cervical ganglions and plexus

.892 Thoracic " " "

.893 Abdominal " " "

.896 Action on eyes; iris

See also 612.8422

.897 Action on hart

See also 612.1782

.898 Action on digestiv tract; alimentary canal

See also 612.3 and special subdivisions

.899 Effect on blood vessels

See also 612.18

613 Personal Hygiene

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773 and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics

.39 Other Beverages.

613.4 **Cleanliness of Body. Clothing.**

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 796.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.

1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49 Care of special parts of body.

.5 **Human Habitation and Resort.**

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.

These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.

1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 **Hygiene of Employment.**

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.

Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.

Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.

Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.

Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66 By Accidents. See Public health, 614.8, Protection from accidents.

Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene. Ship Life.

.69 Hygiene of Travel and Exploration.

613.7 Hygiene of Recreation and Sleep.

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 Hygiene of Nervous System.

Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hashish. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 Hygiene of Offspring. Heredity.

See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture. Eugenics.

614 Public helth

Public hygiene Public sanitation State medicin Preventiv medicin
See also 628, Sanitary engineering; 352.4 Boards of helth
.02 Compends .03 Dictionaries, cyclopedias .04 Essays .05 Periodicals .06 Societies, conventions .07 Education .08 Sanitary appliances, exhibitions .09 History, description, legislation, reports, etc. divided like 930-999, e. g. 614.0942 Public helth in England

.1 Registration and vital statistics See also 312 Population

.11 Births and birth rates

.12 Deths and deth rates
Divided geograficly like 930–999, e. g. Deth rate in England, 614.1242

.13 Mortality at different ages
For life insurance, life tables, biometry, etc. see Life insurance, 368.3, and Life contingencies, 519.5; Longevity, 612.68

.131 Stillbirths

.132 Infant mortality

.133 Mortality in childhood

.134 " " adult life

.135 " " old age

.14 Mortality of sexes, races, etc.

.141 " " the sexes

.142

.143

.144 " " races: colored, white, indian, etc.

.145 " " city and country

.146 " " different occupations See also 613.6

.147 " from special diseases Causes of deth

.15 Morbidity

.16

.17 Marriage

.18 Divorce See also 173.1 Family ethics

.2 State control of medicin

.21 Medical education and degrees See 610.7; 378.2 Academic degrees

.22 Anatomy and vivisection laws See 179.4 Ethics

.23 Expert testimony and other medico-legal relations
See 340.6 Medical jurisprudence

.24 Registration of physicians, dentists, pharmacists, etc. License to practis

.25 Regulation of medical practis
See 174.2 Professional ethics, physicians

.26 Quackery and malpractis

.27 Nostrums and patent medicins See also 614.353 Adulterations

.28 Sale of poisons See 615.9 Toxicology

.29 Medical police

614.3 **Adulterations: inspection of articles liable to affect public helth Pure food laws**
Public analysts State laboratories For chemic analysis see 543
.31 Inspection of food For chemic analysis see 543.1; Hygiene 613.2
.311 Sugars Sirups Confectionery
.312 Cereals Starches Bred
.313 Lards Fats Oils See 614.325–6 Butter, oleomargarin
.314 Spices Condiments
.315 Yeast Baking powders Cream of tartar
.316 Fresh food Vegetables, fruits
.317 **Meats Fish (fresh)**
.318 Cand or preservd food Vegetables, fruits
.319 **Meat Fish Oysters (preservd)**
.32 Milk and milk products
.321 **Milk analysis** See also chemistry, 543.2; dairy, 637.1277
.322 **Milk of known purity**
.323 **Milk sold to consumer**
.324 **Cream Skimd milk Condenst milk Buttermilk Kumiss**
.325 **Butter and its imitations**
.326 Oleomargarin
.327 **Cheese and its imitations**
.33 Other articles of food
.34 Inspection of beverages
For chemic analysis see 543.1; hygiene, 613.3
.341 Fermented
.342 **Wine**
.343 **Brewd**
.344 **Beer**
.345 Distild
.346 Fruit drinks: lemonade, shrub, etc.
.347 Tea Coffee Chocolate Coco See also 613.37, Hygiene
.348 Mineral waters Soda water
See also 613.38, Hygiene; 615.79 Therapeutics
.349 Mixt drinks
.35 Inspection of drugs For chemic analysis see 543.4
.351 Officinal or pharmacopeial drugs
.352 Nonofficinal drugs
.353 Empiric or patent medicins See also 614.27 State control
.354 Cosmetics
.355 **Poisonous cosmetics**
.36 Inspection of tobacco
.37 Inspection of pigments, wall and other papers, textil fabrics, toys, etc.
.4 **Contagious and infectious diseases: general**
.41 Causes and origin
See 589.95 Bacteria, microbes; 616.01 Germ theory of disease
.42 Geografic distribution Climatology
.43 Modes of propagation and communication

614.44 Prevention and restriction See also Ambulances, 614.882
.45 Isolation, lazarettos, etc.
.46 Quarantine, etc.
.461 **Maritime quarantine**
.462 **Inland "**
.463 **Control of rags, etc.**
.47 Protectiv inoculation
.471 **Against smallpox** See also 616.912, Pathology
.472 Variolation
.473 Vaccination
1 Bovine vaccination
2 Humanized vaccination
3 Vaccinal syphilis
4 Revaccination
5 Vaccinisation
6 Revaccinisation
7 Retrovaccination
8 Compulsory vaccination
9 Optional vaccination
.474 Antivaccination
.475 **Against cholera** See also 616.932, Pathology
.476 **" yellow fever** See also 616.928 Pathology
.477 **" hydrophobia Pasteurism**
See also 616.953 Pathology
.48 Disinfection
Houses, clothing, rags, workshops, cars, ships, camps, air, soil, persons, sewers, vaults, excreta. Ded, see 614.64 Embalming, etc.
.481 **Fumigating and other apparatus**
1 Stationary
2 Portable
.482 **Disinfectants Antiseptics Deodorizers**
Treated with reference to public helth. See also Materia medica 615.777 and 615.778
.483 Heat
.484 Chemic disinfectants
.485 Carbolic
.486 Salicylic
.487 Chlorids
.488 Copperas
.49 Epidemics Plagues
.5 Contagious and infectious diseases: special
These heds are for public helth discussions only. For treatment, etc. see Pathology, 616
.51 Filth diseases
.511 Typhoid or enteric fever
.512 Diftheria
.513 Diarrheal diseases
.514 **Cholera**
.515 **Cholera-infantum**
.516 **Dysentery**
.517 **Diarrhea**

614.52 Exanthemata
.521 Smallpox
.522 Scarlet fever
.523 Measles
.524 Rötheln, rubella, rubeola
.525 Chickenpox
.526 Typhus
.53 Malarial fevers
.531 Intermittent fever
.532 Remittent fever
.54 Other contagious and infectious diseases
.541 Yellow fever
.542 Phthisis Tuberculosis
.543 Whooping cough
.544 Mumps
.545 Puerperal fever See also 618.72
.546 Leprosy
.547 Syphilis
.548 Gonorrhea
.55 Parasitic diseases
.56 Diseases communicated from lower animals
.561 Anthrax Charbon
.562 Trichiniasis
.563 Hydrophobia
.564 Glanders
.6 Disposal of the ded
See customs, 393 Treatment of the ded
.61 Burial
.611 Earth burial
.612 Tomb burial
.613 Burials in churches Intramural
.614 Use of perishable coffins
.62 Cremation Crematories
.63 Transportation of the ded
.64 Embalming and disinfection of the ded Use of ice
See 614.48 Disinfection; 615.777 Disinfectants
.65 Effect of cemeteries on helth
.651 By water pollution
.652 " air "

614.7 **Hygiene of the air and ground Nuisances**
See 613.1 Air (Hygiene); 613.6 Hygiene of employment; 628.5 Industrial sanitation
.71 Air pollution by dust and smoke [works
.72 Air pollution by noxious gases, mineral trades, chemic
.721 Carbon compounds
.722 **Carbonic oxid, carbonic acid, carburetted hydrogen**
.723 **Illuminating gases Gas works**
.724 **Mineral oil refining**
.725 Sulfur compounds
.726 Chlorin "
.727 Nitrogen "
.728 Phosphorus "
.729 Other
.73 Air pollution by vegetable trades
.731 Brewing
.732 Distilling
.733 Vinegar making
.734 Sugar refining
.735 Charcoal burning
.736 Varnish making
.74 Air pollution by animal trades
.741 Slaughter houses Abattoirs Fish
.742 Rendering works Boneboiling Tripe and gut cleaning
.743 Pork packing Lard refining
.744 Soap making
.745 Tanning
.746 Glue making
.747 Lampblack
.748 Commercial fertilizers
.75 Storage and handling of noxious and offensiv materials
.76 Other air pollutions See 628 Sanitary engineering
.761 Stables Stable manure
.762 Hog stys
.763 Offal Ded and diseased animals and fish
.764 Vaults Cesspools Water closets, privies, urinals, night soil
.765 Sewers and sewer outlets Sewer gas
.77 Conditions of soil as affecting helth
Topografy Sanitary Surveys
.771 Analysis of soils See 543.7 Chemistry
.772 Soil moisture
Hygiene of natural water courses and of marshes. See 613.14 Hygiene
.773 Ground atmosphere See 613.14 Hygiene
.774 Solid constituents of soil
.775 Malarious soils See 613.14 Hygiene
.776 Recovery of soils from pollution

614.78 Air and ground in towns
.781 Laying out of towns and streets
.782 Subways and elevated ways See 628.47 Sanitation of towns
.783 Parks Air spaces
.784 Hight of bildings and proportion of occupiable area
See 614.85 Bilding laws
.8 Protection of human life from accidents, casualties, etc.
See 613.66 Hygiene of employment
.81 Drowning
.811 Rescue of the drowning
.812 Resuscitation of the drownd First help Pulmotors
.82 Suffocation
By gases, in vaults, mines, etc, ; see also 622.8 Mining dangers. By illuminating gases
.83 Explosions
.831 Manufacture and storage of explosivs and combustibles
See also 662 Chemic technology
.832 Gunpowder
.833 Dynamite, etc.
.834 Inspection of kerosene, etc.
.835 " of illuminating gas
.836 " of electric apparatus
.837 " of steam boilers
.84 Fires
.841 Fire prevention
.842 " detection
.843 " extinction See 352.3 Fire department
.844 Automatic
.845 Chemic extinguishers
.846 Fire engins Water towers See 621.68 Pumping engins
.847 Fire escapes and other apparatus
.848 " exits, etc. from public bildings
.85 Bilding laws Inspection of bildings
See 614.784 Hight of bildings
.86 Protection of travelers
.861 Travel on land
.862 " " highways
.863 " " railroads
.864 " " water
.865 Lighthouses, buoys, etc.
.866 Pilots
.867 Boats, life preservers, etc.
.868 Rescue of shipwreckt Lifesaving servis
.87 Exposure to cold Hospice of St Bernard
.88 Aid to injured
.881 Ambulance
.882 Ambulance for contagious diseases See also 614.44
.883 Bed wagon

614.9 **Hygiene of animals Veterinary sanitation**
.91 Infectious diseases of domestic animals
.92 Parasites of animals See 591.69 Economic zoology
.93 Animal diseases communicable to man See also 614.56
.94 Care and housing of animals
.95 Feeding of animals
.96 Transportation of animals
.97 Methods of slaughtering
.971 Painless extinction of animal life

615 Materia medica and therapeutics

.02 Compends .05 Pharmaceutic journals .06 Pharmaceutic societies
.07 Education, schools of pharmacy .09 History

.1 **Materia medica Drugs Pharmacology**
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis
.11 Pharmacopœias
.12 Dispensatories
.13 Formularies
.14 Prescription writing Posology
.2 **Inorganic drugs**
Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7
.3 **Organic drugs**
See also note to 615.7
.31 Carbon compounds Divided chemicly like 547
.32 Vegetable products Divided botanicly like 580
.33 Vegetable products Divided by character
1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids
.34 Fixt oils and acids
.35 Ferments: diastase, pepsin, etc.
.36 Organotherapy
.37 Serotherapy
Opsonic theory; see also physiology, 612.118223
Vaccine therapy; see also public helth, 614.473 Vaccination
.4 **Practical pharmacy**
.5 Therapeutics Action of medicins in general
.51 Certainty of medicins
.52 Antagonism of medicins
.53 Law of similars Homeopathy
Homeopathic works are clast with the subjects treated. This hed is for Hahnemann's theory only
.54 Influence of age
Infant therapeutics Therapeutics of old age
.55 Influence of sex
.56 Influence of environment
.57 Influence of idiosyncrasy

615.6 **Administration of medicins**

.61 By stomach

.62 " rectum

.63 " subcutaneous tissue Hypodermic medication

.64 " lungs Inhalation See also 612.385 Absorption

.65 " veins Transfusion of blood

.66 " serous and mucous membranes Peritoneum, vagina, etc.
See also 612.387 Absorption

.67 " skin Baths
See also physiology 612.384

.7 Medicins groupt by effects

Treatises on specific drugs, digitalis, ergot, etc. are clast in the divisions of materia medica, 615.2–615.3; iron, 615.272; digitalis, 615.32381

.71 Drugs acting on circulatory system

.711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot

.716 Depressants
Aconite, veratrum group, nitrites

.72 Drugs acting on respiratory system

.721 Expectorants

.726 Errhines Sneezing

.73 Drugs acting on digestiv system

.731 Emetics
Ipecac, mustard, metallic salts, apomorphin

.732 Cathartics
1 Laxat vs 2 Salines 3 Purgativs 4 Hydragogs 5 Drastics 6 Mercurials

.733 Anthelmintics

.734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids

.735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.

.74 Drugs acting on glandular system

.741 Sialagogs (Saliva)

.742 Cholagogs (Bile)

.743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercise

.75 Antipyretics Antiperiodics
Quinin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths

.76 Drugs acting on genito-urinary system

.761 Diuretics
Water, citrates, acetates, digitalis, caffein, copaiba

.766 Uterins Oxytocics
Viburnum, ergot, etc.

615.77 External agencies
.771 Irritating
.772 **Astringents**
.773 **Rubefacients**
.774 **Epispastics** **Blisters**
.775 **Escharotics** Caustic potassa
.776 Protectiv Emollient
Fats, oils, powders, starch, bismuth, oxid of zinc
.777 Deodorants Disinfectants
See 614.48 Disinfection; 614.64 Disinfection of ded
.778 Antiseptics Germicides
.78 Drugs acting on nervous system See also 615.95 Neurotic poisons
.781 Anesthetics Chloroform, ether
.782 Hypnotics Chloral, bromids
.783 Analgesics Opium
.784 Mydriatics Belladonna
.785 Excitants Strychnin
.786 Depressants Conium
.788
.789 Other drugs
Camfor, valerian, asafetida
.79 Mineral waters See also 613.38 Hygiene; 553.7 Occurrence in nature
.8 Other remedies
.81 Mechanical remedies
.811 Bloodletting Venesection Cupping
.812 Setons and issues
.813 Bandages Ligatures
.814 Acupuncture
.815 Pneumatic aspiration
.82 Manipulation Exercize
See also Hygiene, Massage, Osteopathy, curativ gymnastics
.83 Imponderable remedies
.831 Light Blue glass
.832 Temperature: heat, cold
833 Moisture
.834 Climate See also 613.1 Hygiene
.835 Altitude
Decrease of oxygen and increase of nitrogen with increasing elevation
.836 Pneumatic differentiation
.837 Music
.84 Electricity Electrotherapeutics Radiotherapy
See also 537.87 and 621.3915

615.85 Cures
.851 Mind cure Influence of mind on body
Mental condition as affecting disease; occupation as remedy
See also 130 Mind and body
.852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theology, 230.95; sects 289.5
.853 Hydrotherapy Water cure
.854 Food cures: grapes, milk, beef, etc.
.855 Thomsonianism Herb doctors
.856 Perkinism Metallic tractors
.86
.87
.88 Patent medicins
.89 Ancient and medieval remedies
Including those of modern uncivilized peoples
.9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables
.91 Irritant poisons
.92 Mineral irritants
.921 Acid poisons
.922 Alkalin poisons
.923 Nonmetallic poisons
.924 Phosphorus See also 615.218 Drugs
.925 Metallic poisons
.926 Arsenic See also 615.219 Drugs
.927 Mercury See also 615.258 Drugs
.928 Led Painters colic See also 615.251 Drugs
.929 Copper See also 615.256 Drugs
.93 Vegetable irritants
Hellebore, aloes, croton oil, etc.
.94 Animal poisons
Cantharides, diseased meat, ptomains, tyrotoxicon, etc.
.95 Neurotic poisons
See also 615.78 Drugs acting on nervous system
.96 Cerebral or narcotic poisons Carbonic oxid and acid
.961 Opium
.962 Prussic acid
.963 Cyanids
.964 Alcohol
.965 Ether
.966 Chloroform
.967 Chloral hydrate
.97 Spinal poisons
Nux vomica, strychnia
.98 Cerebrospinal poisons
Aconite, belladonna, lobelia
.99 Cerebrocardiac poisons
Digitalis, tobacco

616 Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urin analysis 7 Microscopy, radioscopy, etc. 8 Pathologic anatomy 9 Postmortem examination

.1 Diseases of circulatory system

.11 Membranes of the hart

.12 Hart Angina pectoris

.13 Arteries

.14 Veins

.15 Blood

.2 Diseases of respiratory system

.201 Croup

.202 Hay asthma, hay fever

.203 Influenza, epidemic catarrh

.204 Whooping cough See also 614.543

.205 Coryza, catarrh

.206 Asphyxia

.21 Nose Naso-pharyngeal space

.22 Larynx

.23 Trachea Bronchi Bronchitis Asthma

.24 Lungs

.241 Pneumonia, lung fever

.242 Congestion

.243 Hemorrhage

.244 Abscess

.245 Gangrene

.246 Phthisis, tuberculosis, consumption See also 614.542

.247 Embolism and aneurism of pulmonary artery

.248 Emphysema

.249 Collapse

.25 Pleura Pleurisy

.3 Diseases of the digestiv system

For diseases of teeth see 617.6

.31 Mouth: tung, fauces Sore throat, quinsy, mumps
See also 614.544

.32 Pharynx Esophagus

.33 Stomach Gastritis, dyspepsia, vomiting

.34 Intestins Hernia, diarrhea, constipation, colic

.35 Rectum Anus Piles

.36 Liver Gall bladder Jaundis

.37 Pancreas

.38 Peritoneum Omentum Mesentery Peritonitis

.39 Dietetic diseases
Surfit, starvation, scurvy, dyspepsia

616 .4 **Diseases of lymphatic system and ductless glands**
.41 Spleen
.42 Lymphatics: thoracic duct
.43 Thymus
.44 Thyroid body Goiter, Graves disease
.45 Suprarenal bodies
.5 **Dermatology Skin diseases**
.51 Inflammatory affections
Diffuse, papular, scaly, nettlerash, hives
.52 Catarrhal, vesicular, pustular Eczema, shingles
See also 614.561
.53 Disorders of sebaceous glands
.54 Hypertrofies Atrofies
Corns, warts, white hair, baldness
.55 New formations Pigmentary changes
Albinism, freckles
.56 Disorders of swet glands
.57 Parasitic diseases See 616.96 Parasitic diseases
.58 Other skin diseases
Chilblain, frostbite, chaps
.6 **Diseases of genito-urinary system**
For diseases of women, see 618
.61 Kidneys Ducts Bright's disease
.62 Bladder Calculus
.63 Urinary disorders Diabetes
.64 Male urethra
.65 Prostate
.66 Penis
.67 Scrotum
.68 Spermatic cord Testes
.69 Functional diseases of male generativ organs Spermatorrhea, impotence
.7 **Diseases of organs of locomotion**
.71 Bones (except spine)
.72 Joints (except spine)
.73 Spine Curvature
.74 Muscles
.75 Tendons Fasciæ
.76 Bursæ Sheaths of tendons
.77 Connectiv tissue
.8 **Diseases of nervous system**
.81 Diseases relating to cerebrospinal circulation Apoplexy
.82 Diseases relating to cerebrospinal meninges
.83 Structural diseases of brain and cord

616.84 Functional diseases of brain and cord For insanity see 132.1
.841 Vertigo
.842 Paralysis
.843 Neurasthenia
.844 Spinal irritation
.845 Eclampsia, convulsions See also obstetrics, 618.75
.85 Neuroses
.851 Chorea, St Vitus dance
.852 Hysteria See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
.853 Epilepsy
.854 Tetanus, lockjaw
.855 Aphasia
.856 Anesthesia, hyperesthesia
.857 Megrim, sick hedake
.86 Neuroses due to special poisons
.861 Alcoholism See also Dipsomania, 132.7
.862 Metallic tremor
.87 Diseases of nervs Neuralgia, cramp
.88 Diseases of sympathetic system
.9 General diseases
.91 Infectious diseases
.911 Eruptiv fevers
.912 Small pox See also 614.471 and 614.521
.913 Cowpox
.914 Chickenpox See also 614.525
.915 Measles See also 614.523
.916 Rubella, rötheln See also 614.524
.917 Scarlet fever, scarlatina See also 614.522
.92 Other fevers General works on fevers
See also 612.57 Animal heat
.921 Dengue, breakbone fever
.922 Typhus See also 614.526
.923 Plague
.924 Relapsing fever, famin fever
.925 Cerebrospinal fever
.926 Simple continued fever
.927 Enteric fever, typhoid fever See also 614.511
.928 Yellow fever See also 614.476 and 614.541
.93 Diftheria Cholera Malarial fever
.931 Diftheria See also 614.512
.932 Asiatic cholera See also 614.475 and 614.514
.933 Sporadic cholera
.934 Epidemic diarrhea See also 614.517
.935 Dysentery See also 614.516
.936 Malarial fever See also 614.53

616.94 Septic diseases
.941 Phagedena
.942 Erysipelas
.943 Pyemia
.944 Septicemia
.95 Venereal diseases Hydrophobia, etc.
.951 Syphilis See also 614.547
.952 Gonorrhea See also 614.548
.953 Hydrophobia See also 614.477 and 614.563
.954 Glanders See also 614.564
.955 Horsepox
.956 Splenic fever
.96 Parasitic diseases See also 614.55
.961 Animal parasites
See 591.69 Economic zoology; 614.92 Parasites of animals
.962 Entozoa
.963 Trematoda, flukes
.964 Cestoda, tapeworms
.965 Nematoda Round worms, thredworms, trichinæ
See also 614.562
.966 Acanthocephala, thornheded worms
.967 Insecta parasitica Maggots
.968 Ectozoa
1 Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
5 Arachnida parasitica: mites, ticks
8 Suctoria parasitica, leeches
.969 Vegetable parasites See 581.69 Economic botany
.97 Effects of poisons See 615.9 Toxicology
.98 Effects of injuries and climate
.981 Presence of foren bodies
.982 Mechanical injuries
.983 Excessiv exertion and strain
.984 Excessiv venery
.985 Privation
.986 Exhaustion
.987 Chemic agents
.988 Climate
.99 Other general diseases
.991 Rheumatism, rheumatic fever Gout
.992 Tumors
.993 Nonmalignant: cysts, wens
.994 Malignant: cancer
.995 Tubercle
.996 Scrofula Rickets
.997 Myxedema Cretinism
.998 Leprosy See also 614.546

617 Surgery

May be subdivided by 0 like 610, if wisht

.1 Injuries

.11 Burns and scalds
.12 Lightning and electric shock
.13 Contusions and abrasions
.14 Wounds
.141 Incised
.142 Contused
.143 Lacerated
.144 Punctured
.145 Gunshot See 617.99 Military surgery
.146 With lodgment of foren bodies
.147 With complete separation of parts
.148 Poisond See 615.9 Toxicology
.15 Fractures
.16 Dislocations
.17 Sprains
.18 Asphyxia

.2 Results of injuries

Constitutional effects and other complications. See also 616.94 Septic diseases

.21 Shock
.22 Inflammation
.23 Abscess Sinus Fistula
.24 Ulcers Sores
.25 Mortification Gangrene
.26 Traumatic fever
.27 Tetanus See also 616.854

.3 Orthopedic surgery Deformities

For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities 611.012 Terafclogy; 613.91 Congenital defects

.31 Incomplete development or growth

Divided like 611 Anatomy

.32 Incomplete coalescence of parts: harelip
.33 Coalescence of parts
.34 Extension of commissure (Apparent duplication)
.35 Coalescence of fetuses Siamese twins
.36 Supernumerary parts or organs: extra fingers or toes
.37 Disproportionate growth of parts
.38 Transposition or displacement of parts
.39 Congenital distortions, including talipes, club foot

617.4 **Surgical operations**
.41 Circulatory system
.42 Respiratory system
.43 Digestiv system
.44 Glandular and lymphatic system
.46 Genito-urinary system
.47 Motor and integumentary system
.48 Nervous system
.5 **Regional surgery**
.51 Hed Trephining
.52 Face Mouth See 617.6, Dentistry; 617.7, Eye; 617.8, Ear
.53 Neck Throat
.54 Chest
.55 Abdomen
.56 Pelvis
.57 Upper extremities Artificial arms, hands, etc.
.58 Lower extremities Artificial legs, feet, etc.
.6 **Dentistry Diseases of teeth**
.61 Diseases of dental pulp
.62 Diseases of dentin and cementum
.63 Diseases of dental periosteum
.64 Malposition and malformation of teeth
.65 Odontalgia, toothake
.66 Extraction of teeth
.67 Stopping teeth
.68 Transplanting teeth
.69 Artificial teeth
.7 **Ophthalmic surgery Diseases of the eye**
.71 Conjunctiva Cornea Sclerotic Ophthalmia
.72 Iris Choroid Ciliary body
.73 Optic nerv Retina
.74 Lens and its capsule Vitreous humor Affections of the globe Cataract
.75 Disorders of vision
Myopia, shortsightedness, astigmatism, colorblindness, daltonism. See also physiolgy, 612.845
.76 Muscular apparatus Lacrimal apparatus
Strabismus, squint
.77 Eyelids
.78 Orbit and neighboring parts
.79 Artificial eyes

617.8 **Diseases of the ear**
.81 Affections of external ear
.82 Auricle
.83 Auditory canal
.84 Affections of middle ear
.85 Membrana tympani
.86 Eustachian tubes
.87 Mastoid cells
.88 Affections of internal ear
.89
.9 **Operativ surgery**
See 615.781 Anesthetics
.91 Armamentaria Surgical instruments
.92 Orthopedic appliances Splints, trusses, etc.
See 617.3 Orthopedic surgery
.93 Surgical dressings
.94 Amputation Resection
.95 Plastic surgery
.96
.97
.98
.99 Military surgery

618 Diseases of women and children
.1 **Gynecology Diseases of women**
.11 Ovary
.12 Fallopian tube
.13 Periuterin diseases
.14 Uterus and cervix
.15 Vagina
.16 Vulva
.17 Functional and symptomatic disorders
Diseases of menstruation Leucorrhea Sterility
.18
.19 Diseases of brest

618.2 Obstetrics

.21 **Pregnancy Physiology**
.22 Diagnosis Signs of pregnancy
.23 Duration
.24 Hygiene Management
.25 Multiple pregnancy: twins, etc.
.3 **Pathology of pregnancy**
Diseases of pregnancy and their treatment
.31 Ectopic gestation Extra-uterin pregnancy
.32 Pathology of ovum
.33 Deth and retention of fetus
.34 Pathology of fetal appendages
.35 Decidua
.36 Placenta
.37 Amnion
.38 Umbilic cord
.39 Abortion Miscarriage Stillbirth Molar pregnancy
See 173.4 Infanticide; 340.6 Medical jurisprudence; 343 Criminal law
.4 **Parturition Labor Physiology**
.41 Mechanism of labor
.42 Presentations Positions
.43 Clinic course and phenomena
.44 Conduct of normal labor Management
.5 **Pathology of labor**
Abnormal labor from faults
.51 of powers Anomalies of expellent forces
.52 of passages Mechanical obstacles to expulsion of fetus
.53 of child Abnormalities of fetus See 617.3 Deformities
Complications
.54 Hemorrhage
.55 Rupture or laceration of genital tract
.56 Retention of placenta
.57 Inversion of uterus
.58 Prolapsus funis
.59 Other complications

618.6 **Puerperal state Physiology**
Management, including care of child
.7 **Pathology of puerperal state Puerperal diseases**
.71 Diseases of lactation: milk fever, mastitis, etc.
.72 Puerperal fever See 614.545 Public helth
.73 Metritis Peritonitis See also 616.38 Cellulitis
.74 Septicemia See also 616.944 Pyemia See also 616.943
.75 Convulsions See 616.845 Eclampsia
.76 Puerperal mania See 132.1 Insanity
.77 Phlebitis Venous thrombosis Phlegmasia dolens
See 616.14 Diseases of veins
.78 Other puerperal affections
.79 Sudden deth after delivery
.8 **Obstetric operations**
.81 Application of lever and forceps
.82 Version
.83 Embryotomy
.84 Dilatation of os and cervix
.85 Symphyseotomy
.86 Cæsarian section
.87 Removal of placenta
.88 Induction of labor Removal of ovum
.89 Intra-uterin injections Antiseptics in midwifery
.9 **Pediatrics Diseases of children**

619 Comparativ medicin Veterinary

.1 **Horses**
.2 **Cattle**
.3 **Sheep, goats**
.4 **Swine**
.5 **Poultry**
.6 **Birds**
.7 **Dogs**
.8 **Cats**
.9 **Other**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

620.1 Applied mechanics Engineering materials
621 Mechanical engineering
.1 Steam engineering
.2 Hydraulic engins or motors
.3 Electric engineering
.4 Air and gas engins and other motors
.5 Pneumatic machinery Refrigerating machines
.6 Blowing and pumping engins
.7 Mills Factories Engineering works
.8 Millwork Hoisting and conveying machinery
.9 Machine tools
622 Mining engineering
623 Military and naval engineering
.8 Naval architecture
624 Bridges and roofs
625 Railroad and road engineering
626 Canal engineering
627 River, harbor and general hydraulic engineering
628 Sanitary engineering
629 Other engineering industries

.01 Statistics

.02 Quantities and cost

.03 Contracts and specifications

.04 Designs and drawings

.05 Executiv

.06 Working and maintenance

.07 Laws and regulations

.08 Patents

.09 Reports

.1 Applied mechanics Engineering materials

Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials

.11 Strength of materials General theory

General works considering various materials. For particular materials see 620.12–.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112
For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1

.111 General

This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

620.112 Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Wethering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion "
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Colums, bilt colums Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests
.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material. In engineering it is an accessory material not requiring a place under strength tests
.15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5 Lime, plaster, cement
.17 Iron and steel
.18 Other metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199
.2 Compends Handbooks Kent, Trautwine
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.6 Societies
.7 Study and teaching Instruments
.8 Tables and calculations
.9 History of engineering

621 Mechanical engineering

May be subdivided like 620.0 and by form numbers

.1 Steam engineering

Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18

.101 Applied thermodynamics
Theory and use of steam in steam engin General energy considerations
Steam economy

1 General
Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

.11 Mechanism of steam engin Design of engin parts

.111 General

.112 Types of engins: structural

Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other

1 Primitiv
21 Single acting
22 Double acting
3 According to transmission of motion
32 Direct connected
33 Indirect: beam connected
4 According to position
42 Horizontal
44 Vertical
45 Oscillating
46 Inclined
5 According to terminal pressure
52 Condensing
In early period called 'low pressure'
53 Noncondensing
In early period called 'high pressure'
6 According to expansion
61 Single expansion
62 Compound
63 Double expansion: cross compound
64 " " tandem "
65 " " angle "
66 Triple expansion
67 Quadruple expansion
9 Other types
95 Steam turbins
Better clast 621.165
96 Rotary engins
Better clast 621.166

.12 Marine engins

For propulsion see 623.8 Naval architecture

.121 General

See also 621.11 and 621.18

.122 Types of marine engins

1 Primitiv
Inventions of Papin, Perier, Fulton, Stevens, etc
2 Beam and side lever engins
4 Horizontal, inclined, vertical engins
5 Oscillating
8 Launch engins
9 Other special engins

.123 Marine steam turbins

See also 621.165

621.13 Locomotivs

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower

2

3 Tests

.132 Types

Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134

1 Primitiv forms

2

3 Types according to distribution of wheelbase and load

Exprest by Whyte nomenclature for wheel combinations

5

6 Types according to purpose

62 Freight or goods engins Hog engin

63 Yard, switch or shunting engins

65 Passenger engins

67 Mountain "

68 Mining "

69 Other special locomotivs

8 Peculiar types

Combined 'engin and coach wagon'

9 Types in different countries

Subdivided like 940–999; e.g. English locomotivs 621.132942

.133 Locomotiv boilers Production of steam

Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193

1 Combustion Fuels Petroleum Fuel consumption

See also 621.18357

2 Grate and ashpit Firebox Stays

See also 621.1835

3 Shell and tubes

4 Smokebox and stack Spark arresters

See also 621.1838

5 Exhaust pipe

6 Dome

9 Miscellaneous fittings

Gage cocks, safety valvs, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods

2 Steam distribution Valvs and valv gears

22 Special types of valvs and valv gear

3

4 Compound principle

Distribution in compound locomotivs

5 Lubrication of locomotiv

9 Other parts of locomotiv: throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.

2 Appliances

3 Taking water without stopping; track tanks; water scoops

139 Miscellaneous parts

Cowcatcher or pilot, hedlight, whistle, bell, sandbox

621.14 Traction engins Road locomotivs

Selfpropelling engins for hauling over roads or ground, or doing other work by locomotion. For railway engins see 621.13. For stationary hauling engins see 621.162

Hauling may be accomplisht either by engins applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engins (621.14) over ground or roads; or by engins applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)

.141 Theory General

.142

.143 Boilers

Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engins

.144 Types Traction engins for special uses

.145 Compressing machines Steam rollers

.146 Agricultural: plows, reapers, etc.

.15 Portable engins

Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engins and other pumping engins see 621.64

.151 Theory General

.152 Types, structural, etc.

.153 Boilers

Better clast in 621.18423. If used, limited to discussion of those suitable to portable engins

.154 Portable engins for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engins; 627.7 Dredges

.156 Agricultural: threshers, etc.

.159 Semistationary engins Various types

.16 Stationary engins

Engins fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

.161 Theory and general

.162 Types by use: hauling, dredging, etc.

For pumps see 621.64. For types clast by engin mechanism see 621.164

.163 Stationary boilers

Better clast in 621.18424 with only reference here

.164 Types according to characteristics of engin mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engins 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engins 621.1642244

1 General
2 Throttling engins
3 Automatic shaft governor engins
4 Releasing gear (Corliss) engins Drop cutoff
5 Single acting engins: Westinghouse or Willans type
6 Simple engins
7 Compound engins, triple expansion, etc.

621.165 Steam turbins

See also 621.123 Marine steam turbins

1 **Theory**
11 Methods of calculation
12 Vanes and buckets
13 Guide vanes and nozles
14 Stresses in rotor or disc
15 Windage
2 **Types**
22 Velocity turbins
23 Pressure turbins
24 Combined velocity and pressure turbins
3 **Construction Details of design**
32 Vanes Buckets
33 Guide vanes Nozles
34 Rotor Discs
35 Valvs, governors, safety devices
36 Thrust balancing
37 Mass "
38 Casing, etc.
39 Bearings, etc.

.166 Rotary engins

.169

.18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 **Fuels for boiler heating**
For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
25 Composit fuels: city refuse, coal dust, trash
3 **Fuel consumption**
Practical experiments with a single fuel
4 **Comparativ consumption**
Practical experiments with various fuels

.183 Furnace Draft

1 **General**
Heating and grate surfaces
2 **Types of furnaces**
5 **Furnace parts and construction details**
52 Grates
53 Stationary grates
54 Shaking, dumping and step grates
55 Ashpits Furnace doors
57 Burners for liquid fuel
6 **Mechanical stokers**
62 With traveling grate
63 " rocking "
64 " step grate (Roney grate)
65 " plunger
66 " screw
7 **Other appliances**
77 Pulverized fuel appliances
78 Fuel and ash conveyers Ash removers
See also 621.86 Hoisting and conveying machinery
8 **Chimneys Stacks Draft appliances**
Smoke consumers. For smoke prevention see 621.1941 Firing
82 Natural draft Dampers Uptakes
84 Induced draft
85 Forced draft

621.184 Boilers For boiler plants see 621.19
- 1 **General**
- 13 Boiler economy Tests Feedwater
- 2 **Types**
- 22 Marine
- 23 Locomotiv, traction, portable
- 24 Stationary
- 25 Firetube boilers (tubular)
- 252 Internally fired
- 253 Externally "
- 26 Water tube boilers (tubulous)
- 27 Flash generators Instantaneous vaporizing boilers
- 5 **Boiler construction Setting Parts**
- 52 Shell Heds Tubesheets Domes Drums
  Riveted joints, staying and bracing
- 53 Tubes Ferules Rings
- 54 Casing
- 55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
- 56 Setting and hanging
- 57 Foundations: masonry, flues, etc.
- 7 **Boiler accessories**
- 72 Water gages, floaters, gage glasses, warning whistles
- 73 Pressure gages, manometers, safety valvs
- 79 Other: air cocks and blowout valvs, zincs, steam collectors

.185 Steam transmission and distribution Piping
- 1 **General; laws of flow, condensation, friction**
- 3 **Connections; mains, auxiliary piping**
- 4 **Valvs** Stop, safety, reducing Pressure regulators
- 5 **Drains and traps Receivers and distributing valvs**
- 6 **Covering Insulators**
  Nonconductors for high, low and medium temperatures
- 7 **Joints and cements Expansion joints**
- 8 **Utilization of exhaust steam** See also 697.5 Steam heating

.19 Steam boiler and power plants Central stations
See also bilding, 697.5 Steam heating; and Boiler, Boilers in Relativ index

.191 General

.192 Arrangement and housing of apparatus
- 5 Provision for enlargement

.193 Care and management of steam apparatus

.194 Boilers
- 1 **Firing**
- 2 **Feeding**
  Put here general discussion of feeding and feedwater appliances. For separate description of appliances see 621.197
- 3 Treatment of feed water: purification, softening
- 4 Scale prevention Incrustation
- 7 **Inspection Tests Rating**

.195 Engins: oiling, packing, adjusting

.196 Duration Wear
- 5 Corrosion

.197 Steam plant accessories Economic appurtenances
- 2 **Feedwater appliances**
  Tanks, heaters, economizers, filters, purifiers, regulators
- 3 **Pumps Injectors Return traps**
- 4 **Separators**
- 5 **Superheaters**
- 6 **Condensers and cooling towers**
- 62 Surface condensers
- 63 Jet condensers
- 64 Cooling towers
- 67 Condenser accessories
- 7 **Instruments**
  Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.

621.2 Hydraulic engins or motors

Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors

For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532

.21 Water wheels

Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts

.22 Overshot or bucket wheels Brest wheels

.221 Overshot wheels of low velocity

.222 Overshot wheels of high velocity

.223 Brest wheels Fairbairn wheels

.224 Sluice gate or Sagebien wheels

.23 Undershot or impulse wheels and floating wheels

.231 Ordinary undershot wheels

.232 Wheels with curvd vanes or buckets Pelton wheel

.233 Vertical impulse wheels

.234 Current suspension wheels

.235 Floating wheels

.24 Turbins

See also 621.165 Steam turbins

.241 General: parts (e.g. distributors, buckets, guide vanes) regulators

.242 Reaction or pressure turbins

.243 Outward flow

Early forms: Barker's mill

.244 Inward flow

.245 Downward flow

.247 Impulse or Girard turbins

.25 Water pressure engins Accumulators

.252 Hydraulic pumps

.253 Piping for high pressure

.254 Accumulators

.26 Hydraulic machinery and appliances

For theory see 532.81

.262 Funicular engins Hydraulic tackle

.263 Hoists Elevators Cranes

Class preferably in 621.86; i.e. purpose outweighs motiv power

.264 Special handling and lifting machinery for steel works, etc.

.266 Presses Forging and stamping machines

.267 Accessories: injection pumps

.269 Mining, tunneling and other hydraulic appliances

Hydraulic giant, Brandt's hydraulic gun

.27 Hydraulic rams

For theory see physics 532.83

.272 Lifting rams Montgolfier ram, Bolle ram, etc.

.273 Pumping rams Leblanc ram

See also 621.64 Pumps

.274 Compressing rams Sommelier ram

.29 Flood gates Dams Mill sluices Hed and tail races

Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports
May also be subdivided for form with 0 like 620.1–.9

SUMMARY

621.31-7 **Hevy current engineering**
- .31 Generation of electricity
  - .311 General
  - .312 Central stations
  - .313 Dynamoelectric machinery
  - .314 Stationary induction apparatus
  - .315 Electrostatic apparatus
  - .316 Accessories and parts
  - .317 Control and central station wiring
  - .319 Transmiss on
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric mesurements and testing
- **.38 Weak current engineering**
- .382 Telegrafy
- .384 Wireless communication
- .385 Telefony
- .39 Other applications of electricity

621.31–.37 Hevy current engineering

.31 Generation of electricity Dynamoelectric machinery Transformers Transmission

.311 General

.312 Central stations: metropolitan, rural

Divided by 001–009 like 621.3 with the following additions to 006:
006 Working and maintenance
- 4 Operation and running
- 5 Regulation and control
- 8 Testing
- 9 Repairs and renewal

Administrativ point of view; a specific repair belongs with the part repaird

13 **General central stations**

Combined power, traction, light, etc. stations

132 Steam driven

133 Gas "

134 Hydraulic

135 Composit

2 **Stations for lighting only**

Divided by source of power like 621.31213

3 **Stations for traction only**

Divided like 621.31213

5 **Storage battery pressure regulating equipment**

6 Substations

63 Transformer substations

64 Converter "

65 Accumulator "

621.313 Dynamoelectric machinery

1 **General; construction, installation**

2 **Direct or continuous current machinery**

21 Theory

22 General types

23 Continuous-current generators

2 Series wound 3 Shunt wound 4 Compound wound

24 Continuous current motors

Subdivided like 621.31323 above

245 Constant speed motors

246 Multispeed motors

247 Adjustable speed motors

248 Varying " " (railway motors)

25 Continuous-current converters

26 Dynamotors and motordynamos

27 Compensators or balancers

28 Continuous-current boosters

29 Other

291 Acyclic or homopolar machines

3 **Alternating-current machinery**

32 General types of alternating current machinery

321 Single phase machinery

322 2 " "

323 3 " "

325 Other polyphase machinery

4 Synchronous machinery

41 Theory

42 General types

43 Alternating-current generators

44 Synchronous motors

5 Alternating-current converters

51 Theory

52 General types Description

53 Synchronous converters

54 Phase converters

55 Frequency converters

56 Double-current generator.

57 Motor converters

6 Asynchronous machines

61 Theory

62

63 Induction generators

64 " motors

65 Series alternating-current motors

66 Repulsion motors

67 Frequency converters

68 Phase converters

7 Rectifying apparatus

72 Mechanical rectifiers

73 Arc "

74 Electrolytic "

621.314 Stationary induction apparatus
- 1 **Theory**
- 2 **General types and description**
- 3 **Transformers**
- 31
- 32 Constant-current transformers
- 33 Constant-potential transformers
- 34 Phase-changing transformers
- 38 Meter transformers
- 4 Auto transformers
- 5 **Potential regulators**
- 51 Compensator potential regulators
- 52 Induction " "
- 53 Magneto " "
- 6 **Reactors or choke coils**
- 7 **Induction coils**

.315 Electrostatic apparatus: condensers

.316 Details of electric machinery Parts

Armatures, field cores, etc.

.317 Central station wiring Control devices and switchboards

For meters and mesuring instruments see 621.37

- 1 **General**
- 2 **Panels**
- 22 Generator panels
- 23 Motor "
- 24 Feeder "
- 25 Transformer "
- 26 Converter "
- 27 Lighting "
- 28 Accumulator "
- 3 **Switches**
- 31 General
- 32 Knife switches
- 33 Dial "
- 34 Plug "
- 35 Oil "
- 36 Circuit breakers
- 4 **Rheostats and control devices**
- 5 **Signal devices**
- 6
- 7 **Barriers and compartments**
- 8 **Station protectiv devices (fuzes, lightning arresters, etc.)**

.318 Manufacturing processes

Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies

621.319 Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621 332

1 **General**

12 **Systems**

122 Direct or continuous current systems

Including 2 wire systems

123 3 wire (or Edison) and other

129 Other direct current systems

13 Alternating current systems

131 Single phase systems

132 2 phase (or quarter phase) systems

3 3 wire system

4 4 " "

133 3 phase systems

2 Delta or mesh connections

3 Star or Y connections

139 Other polyphase systems

15 Composit systems

Direct and alternating current combined

2 **Lines and conductors**

For local wiring see specific application; e.g. electric light wiring 621.328

21 General

Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 621.385-7

22 Overhed or aerial lines

222 Systems

223 Poles: foundations, guys, etc.

224 Cross arms Pins

225 Towers

23 Underground lines

232 Systems

233 Condits

234 Manholes

3 Cables and conductors Insulating materials

32 Uninsulated conductors Bare wire

33 Insulated " Wire and cable

34 Cables

37 Insulating materials

Leakage Influence of chemic composition

4 Insulators

8 **Protectiv devices**

82 Line lightning arresters

For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321 General

.325 Arc lighting

Including systems and lamps

1 General: efficiency, cost, etc.

2 **Constant-current or series systems**

3 **Constant potential or parallel systems**

4-5 Arc lighting according to

4 Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42 Open arc

421

422 " " direct current

423 " " alternating current

43 Inclosed arc

431

432 " " direct current

433 " " alternating current

5 Form of current

If emphasis is on type of arc, class in 621.3254

52 Direct current

521

522 " " open arc

523 " " inclosed arc

53 Alternating current

531

532 " " open arc

533 " " inclosed arc

6 **Composit electrode arcs**

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7 **Details Accessories**

Arc light carbons

8 **Applications**

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82 Searchlights

.326 Incandescent lighting

Including lamps and systems

1 General: efficiency, cost, etc.

2 **Systems (Edison 3 wire system)**

3 **Carbon filament lamps**

31 Metalized filaments

32 Other carbon filaments

4 **Metal filament lamps**

41 Platinum filaments

42 Tantalum "

43 Tungsten "

44 Osmium "

45 Other metal filaments

5 **Glowers of other materials**

53 Nernst lamps

621.327 Incandescent vapor lighting and lamps Other electric lighting

3 Vacuum or incandescent vapor lamps
4 Mercury vapor lamps
For mercury rectifiers see 621.3137
5 Carbon vapor lamps Moore lamp
7 Vacuum lamps for special radiations: Crookes tubes, etc.

.328 Apparatus at servis end of line

1 Underwriters requirements
National electric code
2 House wiring
3 Panels
4 Fuzes
5 Insulators, etc.
6 Meters
See also 621.37 Electric mesurements and testing
7 Switches
8
9 Other apparatus

.33 Electric traction

See 625 for construction of route; 656 for business management maintenance; 654 for communication and signals; 699 for car bilding; 725 3 for architecture of stations, terminals. carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

.331 General

2 **Systems**
4 Systems according to current
42 Direct current
43 Alternating current
431 Single-phase
432 2 phase
433 3 phase
439 Others
5 Systems according to delivery of power
52 Trolley systems
53 Overhed trolley
54 Underground trolley
56 Third rail systems
562 Unprotected third rail
564 Protected " "

.332 The line (including track)

1 **General**
Interaction of parallel lines, heat losses, etc. are better clast in 621.31921
17 Feeders and return systems
2 **Overhed wire Trolley lines**
23 Catenary suspension
25 Trackless trolley
3 **Third rail**
5 **Underground conductor or contact**
6
7 **Accessories**
9 Other types of line

.333 Track

1 General
16 Deteriorating influences
167 Electrolysis Leakage
2 Rails
4 Bonding

621.334 Rolling stock

For nonelectric rolling stock see 656 for administration, 699 for construction

2 Locomotivs

3 Motor tramcars

4 Accessories and parts Control systems

Motor, controller, current collecting devices, etc. Multiple unit control

5 Locomotiv and car wiring

7 Running gear and other nonelectric details

.35 Chemic electricity Voltaic cells and generators

Primary and secondary

.351 General

E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

.352 Parts and accessories of cells and accumulators

1 Containers: jars, trofs, vats, etc.

2 Electrodes and their accessories: positiv and negativ plates or elements

Grids, supporting frames, insulating rods, etc.

3 Diaframs and partitions

4 Electrolytes Depolarizers Packing

5 Circulators Condits and piping

6 Connections Terminals Binding posts

7 Regulating apparatus

8

9 Other apparatus

.353 Primary cells

See also 537.5 Voltaic electricity; 541.37 Electrochemistry

1 General

3 Single fluid

4 Double " Hevy current cells

5 Open circuit or nondepolarized

6 Closed circuit or depolarized

7 Accessories and parts

8 Classification according to use or operating methods

.354 Accumulators or storage batteries

Secondary cells and batteries

1 General

18 Care and handling of accumulators

7 Accessories and parts

.355 Led accumulators

1 General

18 Care and handling

2 Naturally formd: Planté type

3 Artificially formd: Faure type

4 Combined Planté-Faure types

5 Other led accumulators

52 Complex oxid types

55 Led element accumulators

56 Copper led "

57 Zinc " "

58 Cadmium " "

.356 Alkalin accumulators

.357 Other types of accumulators

Thallium, gas, etc.

.358 Other classifications of accumulators

According to use or operation

.359 Other topics pertaining to chemic generation of electricity

.36 Vacant for future use; perhaps for direct transformation of heat or fuel energy

621.37 Electric mesurements, meters and testing

.371 General

Tariffs may be clast here, tho better put in 654

.372 Standards Calibration of instruments

.373 Meters General types

Recording meters. See also special meters, 621.384

Prepayment meters. See also special meters, e.g. 621.3745 Watt hour

.374 Special meters and mesurements

2 **Resistance meters: inductance, capacity**

Wheatstone bridges, ohmmeters, resistance boxes

3 **Potential meters: voltage**

Voltmeters, electrometers, standard cells

4 **Intensity meters: current**

Galvanometers, ammeters, coulometers, Ampère-hour meters

5 **Quantity or work meters Watt-hour meters**

6 **Power meters . Watt meters**

7 **Frequency meters Oscillografs**

9 **Other meters and mesurements**

91 Phase meters Power-factor meters Synchronizers

.379 Other electric mesuring instruments

For other than electric mesurements; e.g. electric thermometers

Weak current engineering

.38 Electric communication: telegrafy, telefony, wireless

Libraries have too much material clast in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detaild technical classification is developt here.

For overhed or underground lines see 621.3192

.381 General

.382 Telegrafy Systems

When systems and instruments conflict, classify according to systems.

For business administration, see 654; for wireless see 621.384

15 **Codes**

152 Morse

153 Continental

154 Phillips (press code)

2 **A B C, dial, needle telegraf, etc.**

21 Early experimental forms

22 A B C

23 Dial

24 Needle

25 Pointer

29 Other

3 **Hand operated code telegrafy**

31 Simplex

311 Open circuit

312 Closed circuit

32 Duplex

321 Differential duplex systems

322 Stearns duplex

323 Polar duplex

325 Bridge duplex systems

621.382 34 Quadruplex
35 Multiplex
36 Synchronous multiplex: Delany
37 Harmonic " Gray
4 Automatic code telegrafy High speed systems
41 Electrochemic automatic: Bain, Morse
44 Ink recording or embossing
45 Wheatstone
46 Pollak-Virag
47 Telepost (Delany)
5 Printing telegraf
51 Tape printing: stock tickers
53 Other tape printing: Hughes
55 Page printing: Buckingham, Murray, Baudot
57 Multiple page printing: Rowland
6 Writing telegrafy
Transmitting and recording characters while being written; Gray's telautograf
7 Facsimile telegrafy
Sometimes cald fototelegrafy
8 Submarine cable telegrafy
9 Other wire systems
94 Induction telegrafy; from moving trains, etc.
95 Combined telegrafy and telefony Fantom circuits

.383 Telegraf instruments
1 Transmitting: keys, senders, etc.
2 Intermediate and accessory: relays, repeaters, switches
21 Relays
22 Differential relays
23 Polarized "
24 Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
25 " " duplex or quadruplex
26 'Half' repeaters
27 Switches and distributing apparatus
28 Protectiv apparatus
29 Miscellaneous telegraf accessories
3 Receiving instruments
Sounders, recorders, etc. Subdivided, if wisht, like 621.3824–8

.384 Wireless electric communication: telegrafy, telefony
1 General
2 Wireless telegrafy Systems
21 Spark telegrafy; by free oscillations
25 Continuous-train telegrafy; by forced oscillations
3 Instruments
31 Sending apparatus
35 Antennae, aerials, and their substitutes
36 Receiving instruments and apparatus
4 Applications, adaptations, specific installations
5 Wireless telefony systems
6 Apparatus
61 Sending apparatus
65 Aerials, etc.
66 Receiving apparatus
7 Applications, adaptations, specific installations
8 Vacant for possible development of visual transmission by wireless

621.385 Telefony Systems
See also 621.3845 Wireless telefony

1 **General**
2 **Party line**
When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
22 Series
23 Bridging
24 Selectiv
3 **Intercommunicating systems**
Without central switchboard
32 Common return systems; selectiv at each station
34 Radial common return systems; selectiv at one station only
36 2-wire systems; separate returns
4 **Central switchboard systems**
Manual; for automatic see 621.3857
42 Local battery or magneto systems
46 Common battery or central energy systems
5 Multiple switchboard systems
6 Trunking Transfer systems
61 Trunking
63 Transfer system
7 **Semiautomatic and automatic systems**
72 Semiautomatic
75 Automatic
76 Strowger system (Automatic Electric Co)
8 **Private exchanges**

.386 Telefone instruments
Terminal; subscriber's instruments
2 Transmitters
3 Receivers
4 Induction coils
5 Condensers
6 Hook or other switches
7 Call receiving apparatus
8 Call sending "
9 Miscellaneous accessories
92 Coin collecting devices
94 Protectiv devices
96 Current supply (local batteries)

.387 Central switchboards and other station equipment
1 **General**
2 **Switchboards, manual**
22 Local battery or magneto
26 Common battery
3 Multiple switchboards
35 Divided multiple
4 Trunks Transfer boards
41 Trunks and trunking
43 A boards
45 B boards
47 Multiple plug transfer
5 **Switchboard parts and accessories**

621.387 6 **Power plant equipment and accessories**
62 Accumulators
63 Charging generators
64 Ringing "
7 **Automatic and semiautomatic switchboards**
Including accessories. Subdivided like 621.3857
8 **Telefone transmission**
For transmission common to other branches of electricity see 621.319
Put here only that peculiar to telefony
81
82 Long distance
83 Transposition
84 Telefone cable construction
85 Loading
86 Pupin coils
9 **Other central station accessories**
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
See also 621.3178 and 621.31982
96 Meters and counters
See also 621.3286 Electric light meters
.388 Vacant for visual transmission by wire
.389 Other electric communication
.39 Other applications of electricity
Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating will be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
.4 **Air and gas engins, etc.**
.41 Hot air engins
.42 Comprest or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and systems of operation
1 4-cycle systems Otto cycle
2 2-cycle systems
3 Other and modified systems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
1 Engins for gaseous fuels
11 Engins for natural gas
12 " " illuminating gas
13 " " blast furnace gas
14 " " producer gas. For gas producers see 665.8
15 Engins for acetylene gas
2 Engins for liquid fuels
21 Engins for gasolene
22 " " kerosene
23 " " other petroleum oils
24 " " alcohol
3 Engins for solid fuels

621.436 Special engins or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alfabetically by name of machine
.437 Parts and accessories of internal combustion engins
.438 Special applications
3 Selfpropeld machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines
4 Selfpropeld vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629.2 for motor vehicles
5 Motors for small boats
6 " " large vessels
7 Airship motors
For airships see 629.15
.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations
.5 Pneumatic machinery Mechanical refrigeration
.51 Air compressors
.515 Dry air compressors
.517 Wet " "
.52
.53 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission
.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86
.541 Comprest air motors
.542 Pneumatic tools: drills, hammers, etc.
See also 821.9 Machine tools
.543
.544 Special applications in railway servis
.545 Comprest air locomotivs
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes
.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
.56 Refrigeration
For cold storage see 664.8
.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system
.566 Design Calculation of piping, refrigerating surface. etc.

621.57 Refrigerating machines
.572 Ammonia compression machines
.573 Ammonia absorption "
.574 Carbonic acid machines
.575 Air machines, vacuum machines, etc.
.579 Other
.58 Icemaking
.581 Can system
.582 Plate system
.6 Blowing and pumping engins
.61 Piston blowers Blast furnace blowing engins, etc.
.62 Rotary blowers
.63 Centrifugal blowers
Including fans: exhaust and plenum
.64 Power pumps and pumping engins
Regardless of motiv power
.641 General theory Design and construction
.642 Tests of pumps and pumping engins
.65 Direct acting pumps
.652 Piston pumps
.654 Plunger "
.66 Rotary pumps
.67 Centrifugal pumps
.68 Fire engins
.69 Other blowing and pumping devices
Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offises, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

651 Offis methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659 Advertizing, etc.
670 Manufactures: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considerd the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location

With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration

Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considerd solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers

.71 Drafting room

.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.71

.73 Forge shop

May be subdivided like 621.71

.74 Foundry

May be subdivided like 621.71

.75 Machine shop

May be subdivided like 621.71

.76 Blast furnace

May be subdivided like 621.71

.77 Rolling and drawing mils

May be subdivided like 621.71

.78

621.79 Other shops and departments
.792 Boiler and sheet metal shops
Stamping and punching May be subdivided like 621.71
.794 Special process shops
Galvanizing, plating, etc. May be subdivided like 621.71
.795 Finishing shop
Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
.796 Storehouses
2 Materials and supplies
4 Explosivs
6 Products Shipping department
.798 Department turning out main product
Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71
.799 Other minor shops and departments

.8 Principles of mechanism Power transmission Hoisting and conveying machinery
.81 General Principles of mechanism Machine design
.82 Journals, shafting, etc.
.821 Journals
.822 Bearings: ball, roller, etc. Hangers Bearing metals
.823 Shafting
.8235 Flexible shafting
.825 Couplings and clutches Universal joints
Friction clutches
.826 Shaft brakes
.83 Tootht gears and cams
.831 General: theory, forms of teeth, tooth curvs
.832 Efficiency of gears Tests Friction of gears
.833 Design of gears
1 Spur gears
2 Bevel and skew bevel gears
3 Worm and spiral gears
Screws for transmitting motion, endless screws
.834 Construction: gear cutting and casting
.835 Chain gearing
.837 Ratchet gearing: pawls, dogs
.838 Cams
.84 Valv motions and gears
General, trade catalogs; for special valvs see subject
.846 Valvs and cocks
.85 Machinery and mill gearing
Class here transmission by flexible connections
.852 Belt connection
.853 Hemp rope transmission
.854 Wire rope "
.856 Pulleys Sheaves
.858 Friction gearing

621.86 Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery See also 621.26 Hydraulic machinery· 621.18378 Fuel and ash conveyers

.861

.862 Hoists: blocks and tackle

.863 Mechanical tackle Chain blocks

.864 Winches Capstans Windlasses

.865 Power shovels

.867 Conveyers Telferage

4 Belt or bucket conveyers

5 Belt: moving sidewalks

6 Bucket: escalators, moving stairs

9 Other conveyers: cash carriers, etc.

868 Telfers

4 Selfpropelling

.869 Other: jacks, etc.

.87 Cranes and elevators

.871

.872 Derricks

.873 Revolving cranes

621,873–5 may be subdivided like 621.8771–5 by kind of power if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric

.874 Traveling cranes

.875 Locomotiv cranes

.876

.877 Elevators

1 Handpower

2 Belt driven

3 Steam, gasoline

4 Hydraulic

5 Electric

6

7 For special purposes

71 Passenger elevators

72 Freight "

For mines see 622.17–.68

73

74 Dum waiters Book lifts

Lifts for small objects

8 Apparatus

81 Car and guides

82 Power transmitting devices

83 Counterbalancing weights and guides

84 Control devices

85 Safety "

86 Accessories

621.88 Fastenings
.882 Screws and bolts Systems of screw threds
For screws for transmitting motion see 621.8333
.883 Keys and cotters
.884 Rivets Design of riveted joints
.89 Friction Lubrication Lubricants
.9 Machine tools
Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For woodworking tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry, 736 Wood carving
.91 Planing and milling machines
.912 Metal planers, shapers, and slotters
.92 Grinding and filing Abrasivs
.922 Cylinder and surface grinding machines
Lapping machines
.923 Emery wheels
.924 Filing machines
.93 Cutting and sawing
.931
.932 Metal sawing and cutting machinery
.94 Turning
.941
.942 Metal turning lathes
.943
.944 Pipethreding machines
.945 Boring mills
.95 Perforating machinery
.951
.952 Drilling machinery Drills
.953
.954 Reamers
.955 Tapping machines
.96 Punching and shearing machinery
.97 Hammers Riveting tools
.98 Bending, straightening, and shaping
.981
.982 Bending machinery
.983 Straightening machinery
.984 Flanging and die press machinery
99

622 Mining engineering. See also 338.2 Mining products; 332.41 Coinage metals

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 Exploration and Prospecting

.11 Theory Applied Geology, etc.

.12 Prospecting. Practical Methods.
Including Divining Rods.

.13 Mineral Surveys.

.14 Mine Surveying.

.15 Magnetic Surveys.

.16 Theory of Faults. See 551.87 and 553.19

.17

.18

.19 Mining Prospectuses. See 553

.2 Practical Mining.

.21 Excavation.

.22 Quarrying.

.23 Drilling and Blasting.

.24 Deep Boring.

.25 Shaft Sinking.

.26 Tunneling and Drifting.

.27 Stoping.

.28 Timbering. Masonry lining See also 622.56

.3 Working of Mines. Exploitation.

.31 Open Workings.

.32 Hydraulic Mining and Sluicing.

.33 Coal Mining. See 553.2.

.34 Metal Mining. See 553.3 and .4.

.35 Working Thick Deposits.

.36 Salt Mining. See 553.63.

622.4 Ventilation and lighting of mines

.41 Theory Gases met with, etc.
.42 Natural ventilation
.43 Furnaces Steam jets, etc.
.44 Fans See 621.62
.45 Airways Stoppings Regulators
.46 Mesurement of ventilation
.47 Lighting Safety lamps, etc.

.5 Drainage

.51 Theory of infiltration of water
.52 Natural drainage
.53 Cornish pumps See 621.6
.54 Steam pumps See 621.64
.55 Hoisting of water
.56 Dams and watertight linings See also 622.28, Timbering
.57 Acid waters

.6 Extraction Hoisting and transportation

.61 Handling mineral in working place
.62 Underground roads
.63 Mine cars Trams, etc.
.64 Gravity roads and planes
.65 Tramming and animal haulage See 625.7
.66 Mechanical haulage
.67 Hoisting engins Drums Ropes Whims
.68 Cages Skips Buckets
.69 Surface transportation
Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.

.7 Mechanical preparation Ore dressing

.71 Theory Preliminary operations
.72 Hand dressing
.73 Crushing Stamping engin
.74 Screening
.75 Jigging Ore concentrators
.76 Slime treatment
.77 Magnetic separation
.78 Coal washing
.79 Dressing works

.8 Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes

.81 Explosions of firedamp
.82 Mine fires
.83 Crushing and fall of ground
.84 Flooding of mines
.85 Accidents to miners
.86 Rescue and relief
.87
.88
.89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectils
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent

.11 Principles of fortification

.111 Profiles

.112 Plans

.113

.114 Defilading

.115

.116 Details: bastions, curtains, glacis, etc.

.117 Accessory defenses

Flanking defenses; outworks, palisades: moats, obstacles etc.

.12 Construction of permanent fortifications

.122 Earthwork

.123 Masonry: concrete

.124 Armor

.13 Systems of forts

.131 Central fort

.132 Citadel

.133 Fortified positions

.134 Barrier forts

.15 Temporary fortifications Field works

.19 Special forts

Divided like 930–999; e.g. history of the fortress of Gibraltar 623.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

.21 Siege works

Investment, establishing camps

.22 Circumvallation and countervallation

.23 Establishing parallels and advancing batteries

.24 Zigzags Saps

Trenching, blindage, gabionades

.25 Breaching batteries Breaches

For assaults see 355.44

.26 Land mines and torpedoes

See also 623.9 Submarine torpedoes

.27 Other means of demolition

Firing and exploding devices

623.3 Defensiv operations

For maneuvers see 355.44

.34 Defense of trenches

.35 " breaches

.36 Countermines

.4 Firearms, ordnance and projectils Arsenals

Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosiv.

.41 Artillery material

Clast according to use

.412 Field artillery material

.413 Mountain " "

.414 Landing " "

.415 Siege " "

.416 Fortress " "

Including large guns (fortress, coast and naval) considerd together

.417 Coast artillery material

.418 Naval " "

.42 Guns

.421 Guns according to form and construction

See also 623.5 Gunnery; 623.47 Gunmaking

1 Early forms: bombards, culverins, etc.

For blunderbuses and other early forms of small arms see 623.441

2 Guns proper or long cannon

3 Short cannon or howitzers (shell guns)

4 Mortars

5 Guns made in a single piece

6 Bilt up guns

61 Hoopt guns

62 Jacketed guns

63 Hoopt and jacketed guns

64 Wirewound guns

.422 Guns according to mode of loading and operating

1 Muzzleloading guns

2 Breechloading "

3 Rapidfire guns

4 Machine "

42 Multiple tube guns

Gatling guns, Hotchkiss revolving cannon

43 Single tube guns

5 Automatic and semiautomatic guns

Hotchkiss, Maxim, Colt

.423 Form and interior arrangement of guns

1 General plan

2 Outside form

3 Hooping

4 Jacketing

5 Bore

6 Rifling

7 Chamber

623.424 Breech and firing mechanisms
1 Breech closing apparatus
11 Block
12 Wedge
13 Screw
2 Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.
.425 Sighting attachments
For detacht apparatus, sec 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight
.43 Mounts and carriages
Including their parts and accessories
.431 Field and mountain mounts and carriages
1 Field mounts
2 Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i. e. tenders)
.432 Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i. e. tenders)
.433 Fortress, coast and naval mounts
For accessories see 623.435
1 Casemate mounts
Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts
.434 Naval mounts
For discussion limited to naval use
.435 Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
2 Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators

623.436 Maneuvering appliances
- 1 Levers, handspikes, roller handspikes
- 2 Breeching tackle
- 3 Shot barrows, shell barrows
- 4 Projectil hoists

See also 621.86 Hoisting and conveying machinery

.44 Small arms

Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" wepons prior to firearms see 399

.441 Primitiv forms of firearms

Blunderbus, harquebus, etc.

.442 Rifles, muskets, carbines, musketoons

Including also bayonet as part of the complete wepon
- 1 Single shot, muzzleloading
- 2 " " breechloading
- 3 Repeating rifles
  - 31 With magazine
  - 32 " loader
- 4 Automatic guns

.443 Pistols and revolvers
- 1 Single shot pistols
- 3 Automatic pistols
- 4 Revolvers

.444 Side arms Cutting arms

For halberds, axes, dirks, poniards, and other antiquated forms see 399
- 2 Swords
- 3 Bayonets: saber bayonets, sword bayonets
- 4 Lances

.45 Ammunition and fireworks

Kinds and relativ efficiency for military purposes. For details of manufacture of powder and explosivs see 662

.451 Artillery projectils

Including exploder as part of projectil
- 1 Spheric projectils
  - 11 Solid shot
  - 12 Bombs
  - 13 Shells: early shrapnel
  - 14 Grenades
- 2 Elongated projectils
  - 22 Case shot: canister and grape
  - 25 Elongated bullets
  - 3 Shells
    - 4 Modern shrapnel
    - 5 Segment and ring shell
    - 6 Incendiary shells

      For illuminating shells see 623.45446
    - 7 Shells with high explosiv Torpedo shells
    - 8 Armorpiercing shells and other projectils

623.452 Powders Explosivs
See also 662.2 Powder manufacture
1 Gunpowder
2 Other powders
9 Other explosivs
.453 Fixt ammunition
.454 Exploding devices and fireworks
See also 662 Pyrotechnics, explosivs, matches, etc.
1 Matches and fuzes
11 Slow matches and fuzes
12 Quick matches and fuzes
2 Exploders
21 Percussion caps
22 Primers
23 Projectil fuzes
24 " detonators
29 Other exploders, etc.
3 Fireworks, bombs, etc.
For torpedoes see 623.9
31 Incendiary devices
32 War rockets
33
34 Petards
35 Camouflets
4 Illuminating fireworks
41 Links
42 Torches
43
44 Signal rockets
45
46 Illuminating projectils Star shells
.455 Small arms ammunition
For powder see 623.452
1 Spheric bullets
2 Elongated bullets Minie ball
3 Cartridges Fixt ammunition
32 Jacketed bullets
35 Prohibited bullets: dumdum or expanding; explosiv
Those prohibited by Hague conference
.46 Artillery accessories
.461 Battery tools
.462 Instruments
1 Sighting apparatus: rear sight, quadrants, elevating arcs, range scales
5 Range finders
463 Implements: rammers, swabs, levers
47 Arsenals
Subdivide like 621.7

623.48 Preservation and care of munitions
Reception, tests, accidents
.481 Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms
.482 Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation
.483 Accidents Explosions; preventiv mesures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures
.5 Gunnery
Theoretic and experimental; efficiency of artillery system as a whole. See also 'Projectils' in Relativ index following Tables
.51 Theory and strength of guns
.52
.53 Interior ballistics
Effects of powders; experiments
.54 Exterior ballistics
.55 Sighting and firing
.551 Field and mountain guns
.552 Siege guns
.553 Fortress, coast and naval guns
.554 Naval target practis
.56 Effect of projectils
.561 On living targets: impact, gases
.562 " inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor
.57 Reaction of mounts
.571 Rigid rolling mounts
.572 " sliding "
.573 Theory of braking
.574 Mechanically controld recoil
.575 Nonrecoil mounts
.58 Traction of carriages

623.6 Military roads, bridges and bildings

From the special point of view of military servis. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627 Hydraulic engineering

.61 Military bildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61–.614 vacant; for construction of fortifications see 623.1

.611

.612 Barracks

.613 Military establishments

Groups of bildings forming a unit; e.g. military schools, army posts

.614 Magazines

.62 Military roads and thorofares

See also 625.7 Construction of roads

.63 Military railways

See also 625 Railway construction

.631

.632 Destruction of tracks

.633

.634

.65 Military bridges

For permanent bridges see 624

.651

.652 Pontoon bridges

.653 Trestle bridges

.654 Other temporary bridges

.66 Bridge material

.7 Military signals Aeronautics, etc.

Special military applications of science

.71 Military topografy

Special processes and instruments. See also 526 Topografy in general

.72 Photografy

Reproductiv processes applied to military art. See also 770 Photografy

.73 Signaling Military telegrafy

.731 Visual signals: heliografs, searchlights, etc.

.732 Military telegrafy

Both wire and wireless. See also 621.382 and 654 Telegrafy

.733 Military telefony

Both wire and wireless. See also 621.385 and 654.6 Telefony

.74 Military aeronautics

For principles see 533.6 Aeronautics: for construction of airships see 629.13 Class here only military utility

.741 Machines lighter than air

.742 Free balloons

.743 Dirigible balloons

.744 Captiv balloons

.745

.746 Machines hevier than air: aeroplanes

.749 Other

.75 Military sanitation

Camp sites: soil, water, drainage, etc.. For personal hygiene see 613.6,

623.8 Naval architecture Shipbilding

Including warship accessories. Class here comprehensiv works on shipbilding. Subdivide with 001–009 and 02–09 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

.81 General Design

Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion and design; i. e. speed and power, coal endurance and steaming radius, passenger or cargo capacity, etc.

.82 Types of ships and boats

.821 Primitiv and early forms

2 **Rafts, catamarans, dugouts; galleys**

.822 Modern sailing vessels

5 **Caravels, sailing yachts, etc.**

See also 797 Yachting; 623.824 Power yachts

.823 Engin driven vessels

Steam, internal combustion, electric, etc.

2 **Tugs and lighters**

4 **Ferry boats: passenger, freight and train**

.824 Passenger and cargo vessels

River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

.825 Warships

Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

.826 Other government vessels

Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplanters, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

.828 Other power vessels

Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

.829 Other boats

Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats

.83 Appliances peculiar to shipbilding

Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scriveboard

.84 Hull and its accessories

Structural: watertight compartments; systems of construction (wood, composit, iron and steel), structural details (framing, bulkheds, etc.)
Nonstructural: joinery, nonstructural decks

.85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.

Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering
Ship fittings: doors, hatches, etc.

.86 Equipment and outfit

Superadded, not bilt in, but necessary for effectiv use of ship
Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys
Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit. See also domestic economy, 645

.87 Propelling machinery

Vibration and balancing. For theory of propulsion see 623.81
See also 621.12 Marine engins; 621.165 Steam turbins; 621.18 Boilers

.9 Armor and armament

Distribution, armoring; proper hight, etc; battery
For manufacture of armor plate see metallurgy, 669.1 Iron and steel

.95 Torpedoes Launching tubes and other accessories

624 Bridges and roofs Viaducts

Subdivide if wisht like 620.1–.9 and 620.0

.1 General

.12 Purpose

Highway, foot bridges, etc. regardless of structural type

.13

.14 Location Approaches

.15 Foundations

General works Foundations of bildings are better clast 721.1

.151 Foundation bed Nature of soil

.152 Excavation, timbering, shoring

624.153–.157 may be subdivided like 721.13–.17

.153 Material for bilding foundations

For material for superstructure see 624.01

.154 Pile foundations: general Material

.155 " " methods of sinking

.156 Platform foundations

.157 Subaqueous foundations

Processes: cofferdam, caisson, freezing

.16 Piers and abutments

Wood, masonry, metal. Subdivided like 620.1

.17 Stresses and strains

General; if limited to a special type, class with that type

.171 General Computation of stresses

.172 Loads

Ded, live or moving loads

.173 Highway

.174 Railway

.175 Wind pressure

.176 Working stresses

.2 Girders and girder bridges

Including floor systems; see .25 below

.21 Girders

Continuous; discontinuous or independent

.22 Solid beams

.222 Wood

.227 Metal

.23 Plate girders Lattis girders

.24 Trestles

.25 Floor systems

.27 Girder bridges

.3 Trusses and trussed bridges

Constructed of systems of braced girders

.31

.32 Simple truss

.33 Continuous truss

.35 Cantilever truss Balance bridge

.4 Tubular bridges Box-girder bridge

624.5 **Suspension bridges**
.52 Flexible Rope bridge
.53 Rigid
.55 Cables
.56 Towers or piers
.57 Anchorage
.6 **Archt bridges**
.62 Wood
.63 Masonry
Stone, brick, concrete, reinforced concrete
.67 Metal: iron and steel
.68 Hinged arch
.7 **Compound structures**
Structurally compound; e. g. plate girder and suspension, trussed arch
.8 **Movable bridges Drawbridges**
.82 Bascule: counterpoise, folding
.83 Swing: pivot, swivel, turning
.84 Lifting
Whole bridge lifted vertically
.85 Rolling
Floating; see also 624.87
.86 Aerial and other traveling bridges
.87 Pontoon bridges: floating, boat or raft
.9 Roofs
For other relations see Roofs in Relativ index

625 Railroad and road engineering
May be divided by 0 and 00 like 620. For railway operation see 656
.1 **Way and works**
.11 Route
Reconnaissance, preliminary and locating surveys; center line; grades; curvs; switchbacks
.12 Permanent way Roadbed
Earthwork: surveys, computation, classification, cuts and fills. Drainage
.13 Structures: tunnels, culverts, snowsheds
Class here general works on tunnels; see also mining 622.26
For bridges and trestles see 624; for transportation buildings see 725.3
.14 Track: ballast, ties and tieplates, strains
Including also rails and their accessories
.146 Monorail tracks
.15 Rails and accessories
Rail braces, rail joints, chairs, track bolts, nut locks, spikes
.16 Track accessories
Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle gards
.17 Road maintenance and repair Materials
.18 Road equipment
Fences, gates, platforms, track scales, yards, etc. Stations, depots, shops, etc. considerd as road accessories
For stations, depots, roundhouses, etc. see 725.3
For shops see 621.7
.19 Other topics

625.2 **Trains and accessories**
Interrelations of road and rolling stock; strain and wear
For car building see 699 For time tables, traffic, etc. see 656

.21 Running gear
Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes and gards; lubrication
Suspension, bearing springs

.22 Cars See also 699 car building
Transverse section of car and track gage
Effect of length of car in rounding curvs

.23 Passenger cars

.24 Freight and combination cars

.25 Brakes Buffers and couplings

.26 Power requirements
Length and weight of trains. Speed
See also 621.13 Steam engins; 621.3342 Electric engins; 621.43 Gas engins

.27

.28 Monorail rolling stock

.3 **Inclined and mountain railways**

.32 Funicular railways

.33 Rack railways

.4 **Elevated and underground roads, subways**

.5 **Cable roads**

.6 **Street railways, tramways**
See also 621.33 Electric traction; 625.4 Elevated and underground railways; 625.5 Cable roads; 699 Carbilding

.7 **Roads, highways, streets**
See also local government, 352.7 Streets, highways; for pavements see 625.8

.71 Road systems

.711 Rural

.712 Urban

.72 Location
Preliminary and locating surveys Grades Curvs

.73 Roadbed, foundation
Earthwork Subsurface drainage

.74 Dirt roads Crowning Drainage

.75 Surfacing Oil and other binders

.76 Maintenance and repair

.77 Trees Parkings

.78 Subsurface condits, pipes, etc.
Sewers; water, steam and gas pipes as affecting roads

.79 Other topics

625.8 **Pavement**
.81 Flagstone
.82 Stone blocks and brick
Including cobblestone. Requirements of paving stones
For vitrified brick see 625 87
.83 Wood pavements Corduroy, plank, blocks
.84 Concrete pavements
.85 Asfalt "
.86 Stone roads
Macadam, telford and other broken stone processes
.87 Metal, vitrified brick, reinforced blocks
For other brick pavements see 625.82
.88 Sidewalks May be divided like 625.81–.87
.888 Curbs
.89 Other topics
.9 **Ship railways**

626 Canal engineering
.1 **Route**
.2 **Water supply**
.3 **Size and shape**
.4 **Locks**
.5 **Lifts and inclined planes**
.6 **Canal boats: size, shape, etc.** See 623.829 Shipbilding
.7 **Towing; power, etc.**
.8 **Irrigation canals and other irrigation works**
.9 **Ship canals**

627 River, harbor, and general hydraulic engineering See also 624.157 and 721.17 Subaqueous foundations
.1 **Rivers: force of water, discharge, bars**
River improvement
.2 **Harbors Breakwaters**
.3 **Docks Piers Quays Shipping facilities**
.4 **Dikes and levees, embankments**
.5 **Other protection and reclamation of land from tides and waves, drainage** For agricultural drainage see 631.6
.6 **Jetties**
.7 **Dredging Dredging machinery**
.8 **Dams**
.9 **Lighthouses Buoys**

628 Sanitary engineering Waterworks
.01 Theories, utility .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygrafy .09 History and description of sanitation and general sanitary works, divided geograficly like 930–999
.1 **Water supply of towns** For isolated supply see 628.7
.11 Sources of water supply
Lakes, rivers, springs, wells, and pumping
.12 Pumping vs gravitation systems
Pump well, standpipe, high servis, Holley system

628.13 Storage and servis reservoirs
.14 Condits, aqueducts, tunnels See 625
.15 Mains and servis pipes Freezing, iron, led
.16 Impurities and their removal: filter basins, etc.
.17 Public (sprinkl ng, fire, flushing), manufacturing, and domestic use and waste; meters
.2 Sewerage works
.21 Sewerage systems
.211 Combined system
.212 Separate system
.213 Liernur system
.214 Shone system
.215 Berlier system
.216 Other systems
.217 Outfall
.218 Depth and alinement
.219 Grade and velocity
.22 Shape and size of sewers
.221 Stormwater flow
.222 Ordinary flow
.223 Circular section
.224 Ordinary eg shape
.225 Other eg shapes
.226 Other forms
.228 Formulas for size
.23 Ventilation of sewers
.231 Openings in streets
.232 Lamp posts
.233 Flues in houses
.234 Pipes on houses
.235 House drains
.236 Chimneys and furnaces
.237 Charcoal and chemicals to deodorize sewer gas
.238 Special mechanism
.239 Special construction
.24 Design and construction of sewers
.25 Sewer appurtenances
.251 Junctions
.252 House connections
.253 Manholes and lampholes
.254 Flushing shafts and fixtures
.255 Catch basins and inlets
.256 Traps and ventilators
.257 Valvs and penstocks
.258 Overflows and regulators
.259 Miscellaneous

628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations
.3 Sewage and its disposal
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
See also 628.237
.33 Subsidence
.34 Precipitation
.341 Precipitation tanks
.342 Mixing machinery
.343 Filter presses
.344 Precipitation by salts of alumina
.345 By lime
.346 By salts of iron
.347 By other methods
.348 Disposal of sludge
.349 Miscellaneous
.35 Filtration
.36 Irrigation
.361 Broad irrigation
.362 Ridge and furrow irrigation
.363 Flatbed irrigation
.364 Subsurface irrigation
.365 Intermittent downward filtration
.366 Carriers and appurtenances
.367 Drains and drainage of sewage farms
.368 Filtration areas
.369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
.38 Sewage manures See also agriculture, 631.8425
.39 Discharge into sea, etc.
.4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes, garbage and refuse
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes

628.5 Industrial sanitation
.51 Factories and trades
.511 Prevention of dust and fumes
.512 Protection of throat and eyes
.513 Protection against infection
.519 Special trades
.52 Effluvium nuisances
.521 Situation of works
.522 Use of high chimneys
.523 Condensation in water
.524 Combustion in furnaces
.529 Special trades
.53 Smoke nuisance
.538 From steam generators
.539 From special industries
.54 Disposal of solid and liquid wastes
.541 Discharge into streams
.542 Absorbing wells and burial
.543 Clarification by subsidence
.544 Chemical treatment
.545 Filtration
.546 Purifica ion by the soil
.549 Special methods and special trades
.6 House drainage
.7 Rural water supply: villages and country houses
.8 Ventilation and heating
This hed is chiefly for ventilation. Most matter on heating goes in 697
See also Heating, Ventilation, in Relativ index following tables
.9 Lighting
For other relations and applications see Lighting in Relativ index

629 Other branches of engineering

.13 Aeronautics Aerial navigation
Usual form division .09 to include general accounts of voyages, but class special voyage with type of machine used
.141 Aerostatics
.142 Aerodynamics, bird flight, soaring
.143 Meteorologic conditions; wind currents, etc.
.144 Aerodromes, flying grounds, parks
Experiment stations, landing places, sheds, hangars
.145 Navigation
Atmospheric roads, airways; aerial maps, topografy; airsickness; disasters
.148 Laws, international and local

629.15 Aircraft lighter than air Aerostation

.151 Nondirigible

Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons

.154 Dirigible Airships

.155 Rigid

.156 Semirigid

.157 Nonrigid

.16 Construction

.161 Gas envelop, material

Balloon fabrics, netting, gas used, apparatus for inflation

.162 Car or basket, cabin, seats

Method of attaching to gas envelop

.163 Motors

See 621.4387

.164 Propellers

.165 Steering apparatus

.166 Balancing: gyroscope

.167 Landing apparatus: anchors, parachutes

.17 Aircraft hevier than air Aviation

.171 Kites

.172 Gliders

.173 Monoplanes

.174 Biplanes

.175 More than 2 planes

.176 Helicopters

.177 Ornithopters or orthopters

179 Special adaptations: hydroaeroplanes, aviets

.18 Construction

.181 Structure

Planes, wings, ailerons, etc.

.182 Seats, cabin, etc.

.183 Motors

See 621.4387

.184 Propellers

.185 Steering apparatus

.186 Stability, balancing apparatus

.187 Starting and landing apparatus

.19 Applications of aeronautics

.2 Motor vehicles, automobiles

Mechanically propeld and motor vehicles for highways: bicycles, motor cycles, etc. For highway vehicles for separate tractors (animal or mechanical) see 68

630 Agriculture

SUMMARY

631 Farmsted Soil
632 Hindrances
633 Field crops
634 Fruits Vinyards Forestry
635 Garden crops
636 Domestic animals
637 Dairy and dairy products
638 Bees, silkworms, etc.
639 Hunting, trapping, fish culture

.1 **Rural life**
Rural exodus. Improvement of country life conditions
..2 **Compends**
.23 Agricultural physics
.24 " chemistry
.28 " botany
.29 " zoology
Only for general treatises. Those relating to a special subject ar clast with the subject: e. g. chemistry of milk 637.127
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies, clubs, conferences**
.61 Official institutions; government departments
.62 Voluntary associations
Not under government control
.621 International (International institute of agriculture)
.624–9 Associations divided by country
Subdivided like 940–999: e. g. 630.6244 French agricultural societies, 630.6273 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
Societies of limited scope ar clast with their subjects; e. g. horse breeders associations 636.106
.63 Congresses, conferences, temporary organizations
.7 **Study and teaching**
For agriculture as a school subject see 375.63; for school gardens see 372.36
.71 Instruction, schools
.711 Colleges Alfabetic; but may be subdivided like 940–999 if preferd
.712 Schools Arranged like .711 colleges
.713 Short courses
2 Summer
5 Winter
.714 Correspondence courses
.715 Institutes Farmers institutes
.716 Courses in nonagricultural institutions
.717 Extension work
County agent, boys and girls clubs
.719 Other instruction
.72 Research work Experiment stations
74 Museums, exhibits
.77 Special pedagogic methods
.775 Normal training classes
.79 Competitions, prizes, etc.
.9 **History, divided like 930–999**

631 The farm, farmsted Soil

SUMMARY

631.1 Farm economics
.2 " bildings
.3 " machinery and tools
.4 Land, soil, soil chemistry
.5 Tillage and farm operations
.6 Drainage and reclamation
.7 Irrigation and conservation of moisture
.8 Fertilizers
.9 Climate, roads, etc.

.09 Geografic distribution of cultivation

.091 Zones and physical regions
1 Arctic regions
2 Temperate zone
3 Tropics
4 Mountains

631.1 Farm economics

Farm and estate management

.11 Selecting and acquiring a farm

Land settlement guides

Location: nearness to market; means of communication, by water, by land (railways, highways), climate and rainfall

.112 Purchase

Cost, valuation, taxes

.113 Rent

.114 Share systems (Métayage)

See also 631.1153

.115 Systems of working a farm

1 **Owner his own farmer**

2 **By a manager**

3 **Share system**

From owner's point of view

See also 631.114 from worker's point of view

4 **Renting**

From owner's point of view

See also 631.113 from renter's point of view

.116 Scale of farm

1 **Large farm**

2

3 **Small farm (One-man farm)**

.12 Laying out farm

Locating bildings, fields, farmsteds, roads and lanes

.13

.14 Types of farms

.141 Crop farm

.142 Vegetable farm

.143 Fruit "

.144 Woodlands

See 634.9 Forestry

.145 Stock farm

See 636 Domestic animals; 637.113 Dairy farms

.146 Fish culture in ponds

See 639 Hunting, trapping, fishing

631.16 Finances and accounts Bookkeeping records
.17 Expenses
.171 **Buying supplies Purchases**
.173 **Wages**
.175 **Insurance: bildings, stock, crop**
See also Insurance business 368.5
.177 **Packing, shipment**
For methods see 631.564
.18 Returns Selling products
Marketing
.2 **Farm bildings**
For architecture, see 728.67 Farm houses; 728.9 Outbildings
.21 Houses Dwellings
.22 Barns Poultry houses Stables
.23 Granaries Silos
.24 Carriage houses
.25 Machine sheds
.26 Other bildings
.27 Fences, walls, hedges
.28 Roads, bridges, etc.
.3 **Farm machinery Tools, appliances, etc.**
Care and repair of farm machinery
.31 Clearing and soil working: general tools
.311 Digging tools, machines, etc.
1 **Spade: turf, ditching, post, polisht-drain, longhandled garden spades**
Shovel: prongd shovel For steam shovel see 621.865
Spud
2 **Small too's**
Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See also seeders
3 **Posthole digger**
Posthole auger or borer. Spudding bit
4 **Forks; for digging, etc. Dung-fork**
For hay forks, pitchforks, see 631.3535
5 **Digging machines**
Spaders, rotary spaders, horse shovel, road scraper
6 **Crow or crowbar**
Pick. See also mining picks 622.
Pickax, mattock, grubbing hoe, grubbing ax
7 **Stump extractor or puller Stone gatherer Bush sithes**
.312 Plows
1 **Common plow; walking plow; hand plow**
2 **Riding plow; sulky plow**
Double plow, double-furrow plow, 2-furrow plow
Balanst plow Gang plow, multiple-furrow plow
3 **Power plow**
Steam plow, traction engin, stationary engin; oil or gas engin; electric

631.3124 **Reversible plow, turning moldboard plow**
Sidehil or hilside plow, turn-wrest plow, one-way plow, dril plow, also sometimes called double plow and swing plow

5 **Breaking plow**
Paring plow, sod plow, prairie plow, skim plow

6 **Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow

Double mold board plow, doublebrested p ow
Middle " buster " or burster, middle breaker

7 **Other special plows**
Vinyard plow
Seeding plow
Scooter
Stump jumper, or stumpjump plow
Skim colter plow
Bul-tung and calf-tung plow

8 **Disk plow**

.313 Harrows

1 **Smoothing harrows**
Bush harrows; plank-scraper; fixt and adjustable tooth, frame harrow

2 **Chain harrow**

3 **Spring-tooth harrow**

4 **Curvd knife-tooth harrow, pulverizer**

5 **Revolving harrow**

6 **Disk harrow: ful disk, cutaway**

7 **Spading harrow, scuffle harrow**

8 **Special uses**
Orchard disk harrow

.314 Rollers, etc.

1 **Rollers**
Wood, stone, metal. Hand, horse, riding, power

2 **Disk rollers**

3 **Clod crushers, clod breaker**

4 **Subsurface packer**

6 **Planker, plank drag**

.315 Hand gardening tools

1 **Hoe**
Draw, field, bayonet, garden

2 **Thrust, Dutch, push, scuffle, D hoe**

3 **Scarifier or scraper**

4 **Weeder**
Hand weeder, finger weeder, weed-hoe, weeding forceps, weeding fork, weeding iron, weeding pincers, weeding tongs

5 **Weed cutters**
Weed hook, weeding chisel, weeding shears

6 **Garden rakes: wood, iron**

.316 Cultivators

1 **Wheel hoe, hand cultivator**

2 **Horse cultivators**
Walking cultivators, horse hoe, shovel plow
Scarifier, scooter, scuffler, hasp, sweep, grubber

3 Riding or sulky cultivators
Balance frame

4 Surface or gofer cultivator
Heel scrape, scrape

5 Disk cultivator

6 Stalk cutter

631.33 Seeding and sowing machinery
.331 Seed sowers, seeding machines
1 **Broadcast sowers, seeders**
Hand machines
2 Walking
3 Riding
4 **Land and row markers**
5 **Furrow sowers** **Drils**
6 Walking
7 Riding
8 **Special sowers**
.332 Planters
1 **Hand, foot**
2 **Walking**
3 **Riding**
4 **Check rowers**
8 **Special planters**
.333 Fertilizer distributers
1 **Hand machines**
2 **Walking**
3 **Riding**
4 Liquid fertilizer
5 Pulverized "
6 Farmyard manure, manure spreders
.334 Mixt spreders
Both fertilizer and seed
.335 Propagation apparatus
Cutting benches, layering pots, etc.
.336 Transplanters
1 **Ballers**
6 **Tree conveyers**
.34 Equipment for care of plants, trees, etc.
.341 Grafting, etc. implements and material
Budding knife, grafting knife, grafting wax
.342 Pruning
1 **Shears or pruner** **Hedge trimmer**
2 **Knife or hook**
3 **Chisel**
4 **Bil hook**
5 **Ax or hatchet**
6 **Saw**
7 **Scraper**
.344 Protection and shelter
See also 632.1 and 632.9
1 **Bel glasses**
2 **Cold frames**
3 **Hot beds**
4 **Greenhouses**
5 **Forcing houses**

631.345	Supports
1	**Vertical cords and wires**
2	**Poles, stakes, stays, props**
3	**Trellises, espaliers**
	Horizontal wires or cords
4	**Fruit walls**
.346	Receptacles: pots, boxes, etc.
.35	Harvesting
.351	Hand tools, primitiv tools
1	**Sickle, reaping hook, grass knife, grass hook**
2	**Sithe**
3	**Cradle, cradle sithe**
.352	Mowers
7	**Lawn mowers**
.353	Other haying implements
1	**Hay spreders, tedders**
2	**Hay rakes, gatherers, binders, windrowers**
3	**Hay loaders**
4	**Hay stackers**
5	**Hay forks and carriers**
.354	Reapers
1	**Self binders**
2	**Harvester** Combined harvester and thresher
3	**Heders** Clover heders
.355	Corn harvesters
1	**Corn shockers**
2	**Stubble cutters**
3	**Corn pickers**
4	**Strippers**
5	**Toppers**
.358	Special crops
1	**Fruits, nuts**
3	**Legumes, peas, beans, etc.**
4	**Root crops, etc.**
5	**Fiber crops: cotton, flax, hemp**
6	**Sugar cane**
7	**Other crops**
8	**Tree products**
	Maple (sap), pine (turpentine), gums, resins, gutta percha, ect.

631.36 Machinery, tools, etc. used in preparing for storage or transport

.361 Threshers, etc.

1 **Primitiv tools**
Flails, drags, wain

2 **Mechanical threshers**

3 **Huskers**

4 **Shellers**

.362 Cleaning

1 **Primitiv tools**
Shovel, siv, fan

2 **Winnowers, fanning machines**

3 **Sorters, sifters**

6 **Washers for roots and tubers**

.363 Silo machinery
Ensilage cutters

.364 Packing for transportation or storage

1 **Bundlers**

2 **Balers Baling presses**

3 **Bunchers**

4 **Packers: baskets, boxes**
See 631.3721

.37 Power, power transmission appliances Transport

.371 Motiv power

1 **Human power**

2 **Animal power**

3 **Water power**

4 **Windmils**

5 **Steam engins**

6 **Gas engins, oil and alcohol**

7 **Electricity**

.372 Tractors

1 **Steam**

2 **Gas, oil, alcohol**

3 **Electric**

.373 Transport appliances

1 **By carrying**
Baskets, boxes, bags, etc. handbarrows

2 **On animals backs: packs, saddlebags, etc.**

3 **Drags Sleds Stoneboats**

4 **Hand-carts, wheelbarrows**

5 **Wagons Chute wagons Drays**
Dumping wagons, hayracks, lumber wagons, trucks

6 Motor trucks

9 Other vehicles

.374 Harness Saddles

.38 Implements for care of farm animals

631.4 Land, soil
.41 Soil chemistry
Chemic properties and constitution of soil
.411 Composition according to geologic origin
.416 Inorganic chemistry
.417 Organic chemistry
.42 Analysis and experiments
Methods of investigation: chemic, mechanical
.43 Soil physics
.431 Specific weight (gravity) of soil
.432 Humidity
Water Ground water
Soil moisture: hygroscopic, capillary
Permeability Absorption
.433 Atmosfere: air, gases
.436 Temperature
Warmth of soils
.44 Soil classification Adaptability
Alkali lands; soils for special crops, tobacco, etc.
.45 Soil fertility: maintenance, exhaustion
See also 631.8 Fertilizers
.46 Soil bacteriology: microbes, ferments, sterilization
.47 Soil surveys
.49 History
.5 Tillage and farm operations
.51 Soil preparation and working
.511 Spading, digging, forking
.512 Plowing, subsoiling
.513 Blasting, use of explosivs
.514 Harrowing
.515 Rolling, planking
.516 Hoeing, raking, weeding
.517 Cultivating
.52 Selection, breeding, etc.
.521 Selection
Seed selection
" cata ogs
3 Plant selection
4 Nursery catalogs
.522 Plant breeding
.523 Hybrids Crossing Creation of new varieties
.524 Introduction of new kinds
.525 Acclimatization

631.53 Methods of plant multiplication

.531 Seedage Seeds

1 **Sowing broadcast**

2 **Drilling, in rows**

3 **Planting in hils or separate seeds**

7 **Spores**

.532 Separation of growing plant

1 **Young bulbs, offsets**

Bulbels, bulbules or bulblet; separation of small from parent bulb

2 **Tubers**

Cutting into "sets" each with an eye

3 **Division or partition of tufted growing plants**

.533 Detaching of separate plants

1 **Suckers, root suckers, stem suckers**

2 **Runners, stolons**

3 **Proliferous buds**

.534 Layering

1 **Ordinary; each shoot makes one new plant**

2 **Multiple, serpentine, or trench**

3 **Mound or stool layering**

See also 631.5323

4 **Circumposition, potted, aerial, air or Chinese layering**

6 **Layering trees and shrubs**

7 " vines

.535 Cuttings

1 **Choice of cutting**

2 **Preparation for planting**

3 **Planting**

4 **Branch or stem cuttings**

5 **Short cuttings: cuttings of single eye or bud**

6 **Root cuttings**

7 **Leaf and bulb scale cuttings**

.536 Transplanting

For grafting and budding see 631.54

.54 Caring for plants

For protection against injuries, see 632

.541 Grafting

For bridge grafting, sometimes called bark grafting, see 632.8

1 **Selection of stock and scion, affinity**

2 **Suitable age and season**

3 **Methods of grafting Scion grafting**

31 Cleft grafting

32 Splice "

33 Whip "

34 Saddle "

35 Veneer "

36 Bark "

In England and France called crown grafting, see 631.54142; and sometimes used to mean bridge grafting, see 631.541

37 Herbaceous grafting

631.5414	**Grafting according to position of scion**
41	Root graft ng
42	Crown "
	See also 631.54136, note
43	Stem grafting (on main stem or trunk)
44	Top " (in top or branches)
5	**Bud grafting Budding**
	Formerly called inoculation Flute grafting
6	**Grafting by approach, inarching**
7	**Binding and protecting grafts**
8	**Indoor grafting**
·542	Pruning
1	**Winter pruning**
11	Theories of pruning
12	Methods of pruning
13	Heading in
14	Thinning of branches
15	Scraping
17	Time to prune
2	**Summer pruning Work on green wood**
21	Pinching in
22	Nipping off buds
23	Clipping
24	Ringing, girdling
27	Thinning fruit
3	**Trimming (to secure definit shape)**
·543	
·544	Forcing
1	**Bel glasses**
2	**Cold frames**
3	**Hotbeds**
4	**Greenhouses**
5	**Forcing houses**
·545	Retardation
·546	Training
1	**Vertical, poles, stakes, cords**
3	**Espalier or trellis training**
4	**Wall training**
5	**Arbor training**
6	**Cordon training**
·547	Stages of plant growth
1	**Seedling**
2	**Increase, growth**
3	**Maturity**
4	**Flowering**
5	**Fruitage**
6	**Ripening**

631.55 Harvesting, storage, preservation

These numbers treat of the material operations of harvesting. Class anything about a definit crop under its special number; e. g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures

.552 Mowing
.553 Hay making, stacking, etc.
.554 Reaping
.555 Corn harvesting
.556 Harvesting other special crops

For cutting and felling trees see 634.9 Forestry

1 **Fruits, nuts, etc.**
3 **Legumes: peas, beans, etc.**
4 **Root crops and tubers**
5 **Fiber crops; flax, hemp, cotton picking**
6 **Sugar cane, etc.**
7
8 **Saps, gums, resins, etc.**
9 **Other crops**

.56 Preparation for storage and transport

See note under 631.55

.561 Preparing grains
2 **Threshing, etc.**
3 **Husking corn, etc.**
4 **Shelling corn**

.562 Cleaning, etc.
2 **Winnowing**
3 **Sorting, sifting**
6 **Washing (roots, tubers, etc.)**

.563 Storing green fodder

Cutting, and filling silos

.564 Packing for transportation or storage
2 **Baling**
4 **Packing in baskets, boxes and barrels**

.57
.58 Special methods
.581 Fallowing
.582 Crop rotation
.583 Intensiv farming
.584 Catch crop culture
.585
.586 Dry farming Deep soil culture
.587
.588 Application of special forces
1 **Electro culture**
2 **Radio "**

631.6 Reclamation Drainage

.61 Initial operations

.611 Prairies

.612 Waste lands: rocks and bushes

.613 Hilsides: terracing

.614 Forests

.615 Marshes Swamps

.616 Lands under water Polders

.617 Deserts

See 631.7 Irrigation

.62 Drainage methods

Ditches Drains (open, coverd, tile)

.63 Drainage systems

Plans, layouts

.64 Dikes and embankments

.65 Water removal by machinery

Pumps, windmils, etc.

.7 Irrigation, water supply

Conservation of moisture. Rainfall, streams

.71 Source of water: wels, reservoirs

.72 Irrigating canals

.73 Systems of irrigation

Plans, etc.

.74 Mesure and distribution of water

.75 Cost of water

.76

.77

.78 Machinery

.79 Methods of conserving moisture

Mulching

See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils

.8 Fertilizers

.81 History, nature, uses

.811 Nutrition of plants; necessary principles

.812 Production, preparation, collection, conservation

.813 Composition

.814 Loss of fertilizing principles

.815 Economic value

.816 Use Methods of application and distribution

.817 Purchase Transport Cost

.818 Frauds Adulterations Control; legislation, inspection, analysis

Any special fertilizer may be subdivided like 631.81; e. g.

631.8525 Economic value of bone as a fertilizer

631.8733 Composition of seaweed

631.82 Mineral amendments
.821 **Lime, gypsum, plaster**
.822 **Marl**
.825 **Sulfate of iron**
.83 Potash fertilizers
.831 **Wood ashes, vegetable ashes, burning turf**
.832 **Chlorids**
.833 **Sulfates**
.84 Nitrogen fertilizers
.841 **Ammonia**
.842 **Nitrates**
1 Calcium cyanid
5 Sewage
.843 Animal industry residues: skin, etc.
Slaughter house refuse. See also 831.852 Bone
.844 **Fish**
.845 **Blood**
.846 **Tankage**
.847 Vegetable nitrogen fertilizers
Cotton seed meal, castor beans, pomace
1 **Nitrifying crops**
2 **Soil inoculation Bacteria Nitrification**
For soil conditions see 631.46. Here class introduction of bacteria to improve the soil. The difference is the same as between 631.45 Soil fertility and 631.8 Fertilizers
.848 Azotin, ammonite, etc.
.85 Fosforic acid
.851 Natural rock
.852 Bone
.853 Slags
.854 Guano
.855 Superfosfates
.86 Farmyard and stable manures, etc.
Subdivided like 636; e. g. 631.862 Cow manure
.87 Vegetable manures
.871 Muck
.872 Leaves
.873 Seaweed
.874 Green manures
.875 Vegetable compost
.876 Residue from vegetable industries
.88 Fertilizer experiments
.9 Climate, roads, etc.

632 Hindrances: blights, pests, insects

Including those injurious to either plants or animals, but material relating to diseases of animals is better clast in 619 or 636.089 and *may* attract all matter specially relating to animals

.1 **Elemental destruction Protection**
.11 Low temperature, frost, freezing
.111 Methods of protection
.112 **Warnings: wether bureau, thermometers**
.113 **Covering**
.114 **Artificial clouds**
.115 **Fires**
.116
.117
.118 Repairing damages
.12 Excessiv heat and drout
.13
.14 Hail
.15 Lightning
.16 Wind and rain
.17 Floods, inundations
.18 Fires: forest and prairie
.19 Other destructiv agents
Earthquakes, fumes, gas, etc.

.2 **Galls Cecidiology**
No subdivision at present

.3 **Bacteria and bacterial diseases**
No subdivision at present

.4 **Fungi**
Divided like 589.2

.5 **Parasitic and injurious plants**
.58 Weeds
59 Plants injurious or poisonous to animals

632.6 Injurious animals
Divided like 590, but class injurious insects in 632.7 insted of 632.657

.7 Injurious insects
Divided like 595.7

.71 Thysanura, etc.
Bristle tails or silver fish, spring tails

.72 Orthoptera
Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.75 for leaf hoppers

.73 Pseudoneuroptera
Dragon flies, thrips

.74 Neuroptera
Lacewing flies, caddis flies

.75 Rhynchota, hemiptera
Afids, biting lice, cicads, grass flies, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76 Coleoptera
Beetles, flat-hed and round-hed borers, weevils, wire worms

.77 Diptera
Flies, mosquitos, gnats, midges, fleas. root maggots, army worm, Hessian fly

.78 Lepidoptera
Butterflies, moths, caterpillars

.79 Hymenoptera
Ants, bees, wasps; saw, gall, and ichneumon flies

.8 Diseases and injuries
Other than coverd by 632.2–.7

.9 Means of protection
Other than coverd by 632.1; e. g. netting and covers, screens, gards, scarecrows

.94 Methods and apparatus
Spraying, dusting, fumigating

.95 Preparations and materials

.951 Insecticides

.952 Fungicides

.953 Antiseptics

.96 Natural enemies of pests
May be subdivided like 590

633 Field crops: grains, grasses, fibers, etc.

SUMMARY

.1 Cereals, grains
.2 Grasses
.3 Legumes
.4 Root crops
.5 Fiber crops
.6 Sugar plants and starch
.7 Alkaloidal plants
.8 Perfumes, spices, condiments, etc.
.9 Other plants

.1 Cereals

.11 Wheat
.12 Buckwheat
.13 Oats
.14 Rye
.15 Corn, maize
.16 Barley
.17 Millet, sorghum, etc.
.171 Millet
.172 Panic grass
.173 Prosos
.174 Sorghum
For sweet sorghum see 633.62
.175 Broom corn
.176 Shallu
.177 Kafir, milo maize
White kafir, blackhul kafir, red kafir
.178 Durra, Jerusalem corn
Yellow milo, brown durra, white durra, rice corn, white Egyptian corn Egyptian corn
.18 Rice
.19 Other

.2 Forage crops: grasses

Class here general treatises on forage crops. Divided according to Häckel

.21 Blue grass *Poa*
.22 Orchard grass *Dactylis*
.23 Red top, bent grass *Agrestis*
.24 Timothy *Phleum*
.25 Cereal grasses Divided like 633.1 Cereals
.26 Other cultivated grasses
.261 Bermuda grass *Cynodon*
.262 *Bromus*
.263 Rye grass Lolium
.264 Fescues *Festuca*
.265 Oat grass *Arrhenatherum*
.266 *Paspalum*
.267 *Phalaris*
.27

633.28 Other grasses
Class here only such grasses as hav no specific number
Divided like Häckel in 633.21–.267

.281 *Maydeae*
Zoysicae
Tristegineae
.282 *Andropogonae*
.283 *Paniceae*
.284 *Oryzeae*
Phalarideae
.285 *Agrostideae*
.286 *Aveneae*
.287 *Chlorideae*
.288 *Festuceae*
.289 *Hordeae*
Bambuseae

.3 Forage crops: legumes, etc.

.31 Alfalfa *Medicago*
Black medic, bur clover
.32 Clovers, berseem *Trifolium*
.33 Cowpeas *Vigna*
.34 Soybean *Glycine*
.35 Vetches *Vicia*
.36
.361 Sainfoin *Onobrychis*
.362 Kidney vetch *Anthyllis*
.363 Velvet bean *Mucuna*
.364 Japan clover *Lespedeza*
.365 Beggar weed *Meibomia* *Desmodium*
.366 Sweet clover *Melilotus*
.367 Lupin *Lupinus*
.37 Other legumes
.371 *Sophoreae*
.372 *Podalyrieae*
Genisteae
.373 *Trifoliae*
.374 *Loteae*
.375 *Psoraleae*
Galegeae
.376 *Hedysareae*
.377 *Valbergieae*
.378 *Vicieae*
.379 *Phaseoleae*
.38
.39 Other forage crops

633.4 **Root crops**

These ar practically all also clast as vegetables in 635.1 and .2 and for convenience of correspondence the same arrangement is followd here: 633 4 divided like 635.1 and 633.49 divided like 635.2

.41 Beet *Beta vulgaris*

See also 633.63 Sugar beet

.416 Half sugar mangel

.417 Mangel and mangel wurzel

.42 Turnip *Brassica rapa*

.425 Hybrid turnip

.426 Rutabaga *Brassica campestris*

.43 Carrot *Daucus carota*

.44 Parsnip *Pastinaca sativa*

.49 Tubers and bulbs

.491 Potato *Solanum tuberosum*

.492 Sweet potato *Ipomaea batatas*

.494 Jerusalem artichoke *Helianthus tuberosis*

.5 Textil fibers, cordage, plaiting, basket, etc.

.51 Cotton *Gossypium*

.52 Flax *Linum*

.53 Hemp *Cannabis*

For other fibers known as hemp, see 633.56–.57. Brown and Indian hemp ar indefinit. For 'true Indian hemp' see 633.567

.54 Jute *Corchorus*

.55 Ramie, China grass *Boehmeria*

.56 Other soft fibers

.561 China jute *Abutilon*

.562 Sunn hemp *Crotalaria*

Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp

.563 Ambari or Dekkan hemp *Hibiscus*

Kanoff and Gambo hemp. Dekkan hemp also known in market as Binlipatam jute

.564 Majagua Paritium *Hibiscus titiaceus*

.565 Olona *Touchardia*

.566 Colorado river hemp *Sesbania*

.567 Canada (or Indian) hemp *Apocynum*

True Indian hemp; also called black Indian hemp

.57 Hard fibers

.571 Manila hemp, Abaca *Musa*

.572 New Zealand hemp *Phormium*

.573 Mauritius hemp *Furcraea*

.574 Bowstring hemp *Sansevieria*

.575 Bromelia fibers

.576 Pineapple fiber *Ananas*

633.577 Agave fibers

1 **Sisal, henequen** *Agave rigida*

2 **Ixtle, istle, tampico** *Agave heteracantha*

Jaumave istle *Agave lophantha*

Tula istle *Agave Lecheguilla;* also *A. univittata, A. caerulescens, A. Kerchoevii*

Palm istle *Palma samandoca, Samuela carnerosana. Palma pita, Yucca treuleana*

3 **Manila maguey** *Agave Cantula*

4 **Aloe fiber**

5 **Maguey fiber** *Agave atrovirens, A. collina, A. Potosina, A. Tequilana, A. vivipara*

6 **Zapupe** " zapupe verde ", " zapupe azul "

.58 Fibers for plaiting, basket and wicker work; ruf weaving

.581 Coir, coconut fiber Cocos

.582 Raffia Raphia

.583 Esparto grass, alfa, halfa Stipa

.584 Hat fibers

Jipijapa plant Carludovica Panama hats

Yaraw or hat palm Inodes

Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1

.585 Rushes and sedges Juncus Cyperaceae

.586 Reeds Arundo

.587 Bamboo

.588 Osier, willow Salix

Other woods, splints, rattan

.59 Fibers for other industrial uses

Filling or stuffing fibers, calking natural fibers: Cuba bast, etc. brush fibers, broom root, paper materials, usually better clast from agricultural standpoint with other uses of the material

.6 Sugar plants and starch

.61 Cane *Saccharum*

.62 Sorghum *Andropozon sorghum Brot. S. vulgare Linn.*

.63 Sugar beets *Beta*

.64 Maple *Acer saccharum Marsh*

.65 Palm

.66 Other sugar plants

.68 Starch

Single plants usually better clast from agricultural standpoint with other uses of these plants; e. g. wheat, corn, rice, potatoes, etc.

.7 Alkaloidal plants

For those chiefly medicinal see 633.88

.71 Tobacco *Nicotiana*

.72 Tea *Canellia thea Link Thea Linn.*

.73 Coffee *Coffea*

.74 Cacao, coco, chocolate *Thesbroma*

.75 Poppy (opium) *Papaver*

.76 Kola or cola

.77 Maté *Ilex*

Brazil or Paraguay tea, Jesuits tea, yerba

.78 Chicory, succory *Cichorium*

633.8 **Perfumes, spices, condiments, etc.**

.81 Perfumery

See also 668.5

.811 Floral: rose, jasmin, violet

.812 Herbal: lavendar, rosemary, geranium, patchouli

.813 Citrin: bergamot

.814 Woods: sandalwood, cedar

.815 Roots: orris, vetiver

.816 Balms and gums: myrrh, benzoin

.82 Flavoring

.821 Vanilla

.822 Mints *Mentha*

.823 Wintergreen *Gaultheria*

.824 Sassafras

.825 Ginger *Zingiber*

.83 Spices

See also 664.5

.831 Allspice

.832 Cloves

.833 Cinnamon

.834 Nutmeg

.84 Condiments

.841 Pepper *Piper*

.842 Red pepper, paprika *Capsicum*

.843 Chili *Capsicum*, specially *c. fastigatum*

.844 Mustard

.845 Capers

.846 Horseradish

.85 Oil producing plants

Usually better clast from agricultural standpoint with the purpose for which the oil or plant is used

.86 Vegetable dyes, dye plants

.861 Yellow

.862 Blue

.863 Red

.864 Green

.87 Tanning material

Usually better clast from agricultural standpoint with the tree or plant from which the material is derived

.871 Sumac Canaigre

.88 Medicinal plants

.89 Other

634 Fruits, orchards, vinyards, forestry

SUMMARY

.1 Pomaceous fruits
.2 Drupaceous "
.3 Citrous "
.4 Minor fruits
.5 Nut "
.6 Palmaceous fruits
.7 Small fruits
.8 Grapes
.9 Forestry

.1 Pomaceous or pome fruits
.11 Apple *Pyrus malus*
.12 Crab apple
.13 Pear *Pyrus*
.14 Quince *Cydonia*
.15 Medlar *Mespilus*
.16 Loquat, Japan plum *Eriobotrya Japonica*
.2 Drupaceous or stone fruits *Prunus*
.21 Apricot *Prunophora*
.22 Plum *Prunophora*
.23 Cherry *Cerasus*
.24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
.25 Peach *Amygdalus* or *Prunus Persica*
.26 Nectarin (variety)
.3 Citrous fruits: orange family, etc.
.31 Orange *Citrus aurantium*
.32 Varieties
.321 Trifoliate *C. trifoliata*
.322 Mandarin, tangerine, kid glove orange *C. nobilis*
.323 Grape fruit, pomelo, shaddock *C. decumana*
.324 Kumquat *C. Japonica*
.33 Citron group *C. medica*
.331 Citron var. *genuina*
.334 Lemon " *limon*
.337 Lime " *acida* or *limetta*
.34 Other
.341 Glycosmis *G. aurantiaca*
.342 Lime berry, bergamot lime *Triphasia trifoliata* or *aurantiola*
.343 White sapota, cochil sapota *Casimiroa edulis*
.36 Moraceous fruits Mulberry family
.37 Fig *Ficus Carica*
.38 Mulberry *Morus*
.39 Bred fruit *Artocarpus incisa*

634.4 **Minor fruits**
.41 Anonaceous fruits, custard apple family
.411 Sour-sop *Anona muricata* or *Asiatica*
.412 Sweet-sop, sugar apple *A. squamosa*
.413 Cherimoya; Jamaica apple *A. cherimolia*
.414 Pond apple; mamon *A. glabra* or *laurifolia*
.415 Custard apple; bullocks hart *A. reticulata*
.418 Northern papaw *Asimina triloba*
.42 Myrtaceous fruits, myrtle family
.421 Guava *Psidium*
.422 Rose apple; jamrosade *Eugenia jambos*
.423 Surinam cherry: Cayenne cherry; pitanga *Eugenia uniflora* or *Michelii*
.43 Sapotaceous fruits, star apple or sapodilla family
.431 Sapodilla, naseberry *Achras sapota*
.432 Marmalade tree or plum *Mammae sapota, Lucuma mammosa*
.433 Star apple *Chrysophyllum Cainito*
.44 Anacardiaceous fruits, cashew family
.441 Mango *Mangifera Indica*
.442 Jew plum, Pomme Cythere, sweet Otaheite apple *Spondias dulcis*
.443 Spanish plum *Spondias purpurea*
.45 Ebenaceous fruits; ebony family
.451 Kaki; Japan persimmon *Diospyros Kaki*
.452 Persimmon *D. Virginiana*
.46 Leguminous fruits; bean family
.461 Tamarind *Tamarindus Indica*
.462 St Johns bred; carob; karoub; algaroba *Ceratonia siliqua*
.5 Nut fruits Nuciculture
.51 Walnut Juglars
.511 Persian or English walnut *J. regia*
.512 Black walnut *J. nigra*
.513 Japan walnut *J. Sieboldiara*
.518 Butternut, white walnut *J. cinerea*
.52 Hickory nut *Hicoria*
.521 Pecan *H. pecan*
.522 Shagbark or little shelbark hickory *H. ovata*
.523 Big or bottom shelbark hickory *H. laciriosa*
.524 Pignut *H. glebra*

634.53 Chestnut *Castanea*
.531 European chestnut *C. sativa* or *vesca*
.532 American chestnut *C. americana*
.533 Japan chestnut *C. crenata* or *Japonica*
.537 Chinkapin *C. pumila*
.54 Filbert, hazelnut, cobnut *Corylus*
.55 Almond *Prunus*
.551 Almond *P. amygdalus*
.552 Russian almond *P. nama*
.555 Tropical almond *Terminalia Catappa*
.57 Miscellaneous nuts
.571 Litchi, Leechee *Nephelium Litchi*
.572 Ginkgo *G. biloba*
.573 Cashew *Anacardium occidentale*
.574 Pistachio *Pistacia vera*
.58 Peanuts *Arachis hypogaea*

.6 Palmaceous fruits
Palm family and miscellaneous tree fruits

.61 Coconut, coco palm *Cocos nucifera*
.62 Date palm *Phoenix dactylifera*
.63 Oliv *Olea Europea*
.64 Pomegranate *Punica granatum*
.651 Papaw; melon papaw, melon zapote *Carica*
.652 Spanish lime Ginep *Melicocca bijuga*
.653 Alligator or Avocado pear *Persea gratissima*
Aquacata, midshipmans butter
.654 Mammee apple, S. Domingo apricot *Mammea Americana*
.661 Hovenia
.662 Jujube *Zizyphus*
.663 Myrica
.664 Seagrape; shore grape *Coccoloba uvifera*
.665 Pigeon plum *Coccoloba Floridara*
.666 Otaheite gooseberry *Phyllanthus distichus*
.667 Strawberry tree *Arbutus unedo*

.7 Small fruits, bush fruits and herblike fruits

.71 Rubaceous, cane or bramble fruits *Rubus*
.711 Raspberries
1 European 2 Black cap 3 Red
.712 Oriental raspberries, wineberry, Japanese wineberry
.713 Blackberry
.714 Loganberry
.717 Dewberry
1 Northern 2 Southern 3 Pacific

634.72 Ribaceous fruits Groselles *Ribes*
.721 Currants
.722 **Garden or common currant** *R. rubrum*
.723 **Black currant**
1 European *R. nigrum*
2 American *R. Americanum*
3 California *R. bracteosum*
.724 **Buffalo, Missouri, flowering or golden currant** *R. aureum*
.725 Gooseberry
.726 **European** *R. grossularia*
.727 **American** *R. oxycanthoides*
.73 Huckleberry, blueberry, etc.
.731 Blue tangleberry or dangleberry *Gaylussacia frondosa*
.732 Black huckleberry *G. resinosa*
.734 Low or dwarf blueberry *Vaccinium Pennsylvanicum*
.735 Canadian blueberry *V. Canadense*
.736 Low or pale blueberry *V. vacillans*
.737 Swamp blueberry, high huckleberry *V. corymbosum*
.74 Miscellaneous bush fruits
.741 Juneberry *Amelanchies*
.742 Buffalo berry *Lepargyraea argentea* *Shepherdia argentia*
.743 Goumi *Elaeagnus longipes* or *multiflora*
.744 Caraunda Christ'sthorn *Carissa Carandas*
.745 Cranberry bush, high or tree cranberry *Viburnum opulus*
.746 Barberry *Berberis*
.747 Elderberry
.75 Strawberry *Fragaria*
.751 Garden strawberry, pine strawberry *F. chiloensis*
.752 Hautbois strawberry *F. moschata*
.753 Alpin and perpetual strawberry *F. vesca*
.754 Scarlet or Virginia strawberry *F. Virginiana*
.76 Cranberry *Vaccinium macrocarpor*, etc.
.77 Nonwoody or herblike fruits
.771 Musacious fruits *Musa*
.772 **Banana** *Musa sapientium*
.773 **Plantain banana, cooking banana, Adam's fig** var. *paradisiaca*
.774 Pineapple *Ananas sativus*
.775 Cactaceous fruits
1 **Prickly pear, tuna** *Opuntia tuna*
4 **Indian fig** *Opuntia ficus Indica*
7 **Barbados gooseberry, lemon vine, blad apple** *Pereskia aculeata*
.776 Miscellaneous herblike fruits
1 **Cyphomandra; tree tomato** *Cyphomandra betacea*
2 **Ceriman** *Monstera deliciosa*

634.8 **Grapes, vinyards**
.9 **Forestry**

635 Garden crops; kitchen and market gardening

SUMMARY

.1 Edible roots, including tubers and bulbs
.2 Tubers and bulbs
.3 Edible leaves or flowers
.4 Greens, pot herbs
.5 Salads
.6 Edible seeds and fruits
.7 Condimental and sweet herbs
.8 Mushrooms, truffles
.9 Floriculture

.1 **Edible roots**
.11 Beet
.12 Turnip
Usually a field crop. See 633.42
.126 Rutabaga Swedish turnip Turnip-rooted cabbage
.127 Navew, French turnip
.128 Celeriac, turnip-rooted celery
.13 Carrot
.136 Turnip-rooted chervil
.137 Chicory
Better in 633.78
.14 Parsnip
.15 Radish
.16 Salsify, oyster plant, vegetable oyster
.166 Scorzonera, black salsify
.167 Scolymus, Spanish salsify
.2 Edible tubers and bulbs
.21 Potato
.22 Sweet potato, Spanish potato, batata
.23 **Yam**
.24 Jerusalem artichoke, topinamber
.25 Onion
.26 Other plants of Allium family
.261 **Leek**
.262 **Garlic**
.263 **Shallot, scallion**
.264 **Cibol, Welsh onion** (French, ciboule)
.265 **Cive, chive**

635.3 **Edible leaves, flowers and stems**
.31 Asparagus
.32 Artichoke
.327 Cardoon, chardoon
.33 Sea kale
.34 Cabbage
.346 Kale or borecole
.347 Collards
.348 Kohlrabi
.35 Cauliflower
.356 Broccoli
.36 Brussels sprouts
.4 Greens
.41 Spinach
.42 Chard, sea-kale beet, Swiss chard
.43 Orach, French spinach
.44 Mustard
.45 Sorrel Dock
.46 Dandelion Purslane (pusley)
.48 Rubarb
.5 Salads
.51 Bitter salads
Dandelion. See 635.46
Cardoon. " 635.327
.52 **Lettuce** *Lactuca sativa*
.53 **Celery** *Apium graveolens*
.54 **Chicory or succory** *Cichorium intybus*
Also used as pot herb and root
.55 **Endive** *Cichorium endivia*
.56 Piquant or warm salads
Class any species or variety with its genus; e. g. bitter *cress, cardamins amara* with 635.562
.561 **Water cress** *Nasturtium officinale*
.562 **American water cress** *Cardamine rotundifolia*
.563 **Garden cress** *Lepidium sativum*
.564 **Winter cress** *Barbaria vulgaris*
.565 **Swine cress** *Senebiera coronopus*
.566 **Indian cress** *Tropaeolum majus*
For mustard see 635.44
.57 Neutral salads
Lamb's lettuce, corn salad, fetticus

635.6 Edible seeds and fruits
.61 Melons
.611 Muskmelon: cantaloup, nutmeg, winter, etc.
.615 Watermelon: preserving or "citron"
.618 Zit kwa, wax gourd
Chinese preserving melon, Chinese watermelon
.62 Squashes
.621 Summer or bush squashes
Crooknecks, scallop or pattypan, pineapple
.622 Fall and winter, or longrunning squashes
Canada crookneck, Hubbard
.623 Vegetable marrow
.624 Pumpkins
.627 Luffa, rag gourd, dishcloth gourd, vegetable sponge
.63 Cucumbers Gherkins Martynia
.64 Tomato
.646 Egplant, guinea squash, aubergine
.647 Physalis, husk tomato, strawberry tomato
.648 Okra or gumbo
.65 Beans
.651 Broad bean
.652 Kidney bean: garden, snap and string bean; haricots
.653 Lima or sugar bean
.654 Dolichos
.655 Soy or soja bean See 633.34
.66 Peas
.667 Chick pea *Cicer arietinum*
.668 Lentils *Lens esculenta*
.67 Sweet corn
.677 Pop corn
.7 Condimental and sweet herbs
For the regular condiments of commerce see 633.84 and 664.5
.71 Seasoning leaves and flowers
.72 Garden mint, spearmint
.74 Flavoring for pickles, vinegar, etc.
Dil, tarragon, samfire, costmary
.75 Seeds for flavoring
Anis, coriander, carraway
.76
.77
.78 Garnishes: parsley, leaf chervil
.8 Mushrooms, truffles
.9 Floriculture

636 Domestic animals

.08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

.081 Selection Economics
.082 Formation of stock, races, breeding
.083 Care
.084 Feeding
.085 Food; general questions
.086 Foods; divided like 633
.087 Other foods
.088 Utilization and training
.089 Hygiene Diseases

081 Selection Economics, etc.

1 Selecting and acquiring stock

11 **Capture**

Of wild animals and of domesticated animals allowd to run wild.
" Round up " of western ranches

111 Capture by snares, traps, nets, etc.
112 " " wepons, guns, etc.
113 " " help of other animals, dogs, horses, ferrets, hawks, etc.

12 **Purchase Original cost**
13 Barter Horse trade
14 Standards of excellence Points
15 Soundness Imperfections Blemishes
16 Estimating age

2 Brands and branding and other marks of ownership

28 **Catalogs of brands**

3 Stock farms Ranches

31 **Descriptions of individual farms**

Alfabetic

6 Finances and accounts

7 **Expenses**
71 Supplies, food, etc.
73 Wages
75 Insurance
8 **Returns, yield, profit**
81 Weight tables
87 Stock farm catalogs
88 Catalogs of sales

636.082 Formation of stock
Races, breeding, heredity, etc.

1 Character of herd, flock, colony, etc.
11 **Species, races, breeds, strains; heredity, variation**
2 Herd books, stud books, flock books, etc.
3 Composition of herd, flock, colony; sexes
Including notes and articles about the different kinds
31 **Male**
32 **Female**
33 **Neuter** (of bees)
34 **Castrated male** **Gelding**
35 " **female**
36 **Young animals**
37 Males
38 Females
4 Breeding Reproduction
41 **Breeding in and in**
Line breeding. Animals closely related by blood
43 **Cross breeding**
431 Hybrid
Individuals of different species
432 Métissage
Individuals of different races
44 **Choice of parents**
45 **Generation**
451 Sexual excitement: heat, rut
453 Sexual union
454 Impregnation
Fusion of male and female element
46 **Laying of egs**
461 Nests
47 **Incubation** **Hatching**
471 Natural
474 Artificial Incubators
.083 Care of animals
1 Bilding and installation
Stalls, boxstalls, pens, nests
2 Care of stables or houses
Clenliness, bedding
3 Care of animals
Grooming, clipping
37 **Special care of young**
Brooders 636.5
4 Care of feet Shoeing
5 Care of animals outdoors
Shepherds, watch dogs, etc.
6 Acclimatization
61 **Protection from cold: blankets**
62 " " **heat**
66 " " **wind and rain**
7 Care of harnesses and accouterments

636.084 Feeding
1 Feeding of young
11 Suckling
12 Weaning
13 Hand or artificial feeding
2 General methods of feeding
21 In stables, houses, etc.
22 In pasture
23 Mountain pastures, ranches
31 Special provisions: water. salt, etc.
4 Ordinary, rational feeding
41 Rations Amount and proportion
42 Kind and times of feeding
45 Substitutions Variety
5 Feeding for special purposes
51 For breeding time
52 For increast production: milk, egs, etc
53 For work
55 For fattening
56 Forced feeding, cramming
.085 Food
1 Composition
2 Nutritiv value
3 Food experiments
4 Commercial value
5 Different kinds of food
For individual foods see 638.086 and .087
51 Fresh or green fodder
52 Ensilage
54 Dry fodder
Hay, straw, grains
57 Prepared foods
Industrial residues Cakes of oily grain or fruit
6 Preparation and use of food
9 Adulterations of foods for animals
.086 Foods
Divided like 633
13 Oats
15 Corn
2 Forage crops, hay
25 Straw
255 Cornstalks
32 Clover
41 Beets

636.087 Other foods
- 4 **Fruits**
  - Divided like 634
- 5 **Garden crops**
  - Divided like 635. Use only for material not coverd by subdivisions of 633
- 6 **Animal food**
- 7 **Mineral foods: salt, condiments**

.088 Utilization and training of animals
- 1 For breeding purposes
- 2 For work
- 3 For production of food: meat, egs, etc.
- 4 For animal products
  - Wool, skins, fethers, etc.
- 6 Breaking, training, etc.
  - 61 **To saddle, etc. for carrying purposes**
  - 62 **To harness, for work**
  - 66 **Special training**
    - 661 Carrying messages
    - 662 Hunting

.089 Hygiene, diseases, etc.
- Hygiene is usually better clast 614.9, and Diseases 619
- 1 Anatomy
- 2
- 3 Hygiene
- 5 Remedies, materia medica
- 6 Diseases
- 7 Surgical operations

.1 **Horse**
- .11 Oriental horse
  - Arabian, Persian, Tartar, Turkish, Barb
- .12 Speed horse, race horse, light type, ' hot blooded '
- .121
- .122 English thorobred or running horse
- .127 Other European
  - 1 **Russian Orloff trotters**
- .128 American trotter or pacer
  - 1 **Morgan**
- .13 Saddle horse
  - Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey

636.14 Coach or carriage horses
Harness horse
.142 English coach
1 **Cleveland bay**
2 **Yorkshire coach**
3 **Hackney**
.143 German coach
East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklenburg, Schleswig, Hanoverian, Oldenburg, Holstein
.144 French coach, ' demisang '
.145 Italian: Corsican
.15 Draft horse, cart horse, hevy type, ' cold blooded '
.152 English
1 **Clydesdale**
2 **Suffolk punch or draft**
3 **Black or shire draft**
.154 French and Belgian
1 **Norman, Percheron**
2 **Ardennais**
3 **Boulonnais**
4 **Breton**
5 **Nivernais**
8 **Belgian draft, Flanders dray, Flemish horse**
.158 American draft
Conestoga
.16 Ponies
.161 Ponies for special purposes: polo
.162 Scotch, English and Welsh
1 **Shetland**
2 **Galloway**
4 **Exmoor**
5 **Dartmoor**
6 **New Forest**
9 **Welsh**
.168 American
Mustang, bronco, Indian pony
.18 Allied animals
.182 Ass: jackass, donkey, burro
Asiatic, Catalonian, Italian, Maltese
.183 Mule, hinny
.184 Zebra, quagga, etc.
.185 Zebrule, zebroid

636.2 **Cattle Greater ruminants**

May be divided like 636.081–.089, but for utilization use .21

.21 Uses

Subdivide like 636.088 See note above

.22 English cattle

.221 Old stocks

Forest cattle, wild white, Chillingham

.222 Beef breeds

1 **Short horns**

2 Durham

3 Teeswater

4 Lincolnshire

5 Red shorthorn

6 **Hereford whitefaced**

7 Polled Hereford

8 **Sussex**

.223 Scotch, Welsh and Irish beef breeds

1 **Aberdeen Angus**

Angus doddie, Buchan humblies, polled Aberdeen

2 **Galloway**

Blue gray

3 **West highland: Kyloe**

6 **Black Welsh**

.224 Dairy breeds

1 **Channel iland cattle**

2 Alderney

3 Jersey

4 Guernsey

.225 **Scotch and Irish dairy**

1 Ayrshire

2 Dunlop

3 Cunningham

6 Kerry

Dexter Kerry, Dexter shorthorn

.226 Dual purpose breeds

1 **Devon**

North Devon, Rubies, South Devon

2 **South Hams**

Hammers

3 **Polled Durham**

4 **Red polled**

5 Norfolk

6 Suffolk

7 East Anglian

8 **Longhorn (English)**

Dishley

636.23	German, Dutch and Swiss cattle
.232	Beef breeds
.234	Dairy breeds
1	**Holstein**
2	**Holstein Friesian**
3	**East Friesian**
4	**Oldenburg**
.235	**Dutch**
1	Dutch Friesian, Netherland, North Holland
4	Dutch belted: Lakenfelds, Lakenvelders, Veldlakers
6	**Danish**
7	Jutland
.236	Dual purpose
.237	**Swiss**
1	Brown Swiss
2	Simmental
3	Bernese
4	Spotted race
.24	French and Belgian
.242	Beef
.244	Dairy
1	**Breton, Brittany**
.245	**Belgian dairy**
1	Flamande, Flemish
2	Rosenstein
.246	Dual purpose
1	**Norman**
2	Cotentin
.27	Other European
.271	Russian
	Kolmogorian
.28	Other countries
.282	American beef breed
1	**Longhorn, Texas steer**
.283	American dairy breed
1	**American Holderness, Holderness**
2	**French Canadian, Quebec Jersey**
.29	Allied animals
.291	Brahmin sacred cattle; zebu
.292	Bison family
1	**Bison; American buffalo**
2	**Cattalo**
	Hybrid of bison and cow
3	**European bison**

636.293 Buffalo or water buffalo *Bubalus*
Bhains, mhains, arna, arni (Hindu)
Moonding (Sudan)
Karbo or Karbon (Malay)
Carabao (Philippines)

.294 Deer, reindeer

.295 Camel: Arabian, Bactrian; dromedary

.296 Lama, llama, alpaca

.2971 Yak

2 Gayal, gaur

636.3 Sheep, goats Smaller ruminants
May be divided like 636.081–.089, but for utilization use .31

.31 Uses
Subdivide like 636.088 See note above

.32 English breeds

.321 Longwool breeds (coarse wool)

1 **Cotswold**

2 **Leicester**
English Leicester, New Leicester or Dishley, Bakewell's Leicester

3 **Border Leicester**
Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester

4 **Lincoln**

5 **Kent or Romney marsh**

6 **Wensleydale**
Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface, Teeswater

7 **Devon longwool, Southam nolts, Bampton nolts**

8 **South Devon or South Dum**

9 **Roscommon**

.322

.323 Shortwool breeds
Medium-wool; middle-wool; down sheep; mutton sheep

1 **Southdown, Sussex, Sussex down**
Including Underhill and Upperdown

2 **Hampshire down, improved Hampshire down, Wiltshire brook, Berkshire knot, Wiltshire hornd**

3 **Dorset or West country down, Dorset horn, hornd Dorset**

4 **Oxford or Oxfordshire down**
Before 1859 calld Down-Cotswold

5 **Suffolk down, old Norfolk, hornd Norfolk**

6 **Shropshire down, Morfe common**

.3241 **Dorset and Somerset horn**

2 **Ryeland or Lempster**

3 **Clun Forest, Wicklow** (Irish)

4 **Kerry Hill** (Irish)

5 **Radnor**

636.325 Mountain breeds
- 1 **Cheviot**
- 2 **Blackfaced**
  - Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir, Tweeddale, blackfaced highland
- 3 **Herdwick**
- 4 **Lonk or Lank** **Lancashire blackfaced**
- 5 **Penistone**
- 6 **Limestone, Limestone Crag**
- 7 **Ruf Swaledale**
- 8 **Shetland, Orkney, Hebrides**

.3261 **Derbyshire gritstone**
- 2 **Dartmoor**
- 3 **Exmoor** **Exmoor horn**
- 4
- 5
- 6 **Cornwall**
- 7 **Welsh mountain**

.33 German and Dutch breeds Swiss

.331 Low country or marsh sheep
- Hornless and short taild
- 1 **Dutch Texel**
- 4 **Friesian**
  - East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand
- 7 **Northeast German**
  - Vaga, Elbingen

.333 Upland sheep, heath sheep (German heidsnucken)
- 1 **Pomeranian or Polish, Mecklenburg** (Spiegelschaf)
- 2 **Hessian**
- 3 **Bavarian or Zaupel** **Franconian** (Frankenschaf)
- 4 **Rhine**
- 5 **Hanoverian, Münster**
- 6 **Styrian or Carinthian**

.34 French and Flemish breeds

.342 Central plateau breeds
- 1 **Auvergne**
- 2
- 3 **La Marche**
- 4
- 5 **Limousin**
- 6
- 7 **Saintonge**

.344 Loire basin and north France breeds
- 1 **Berrichonne** (Crevant, Cher, Indre)
- 2 **Solognote** (Sologne)
- 3 **Comtoise** (Franche-Comté)
- 4 **Ardennes** (Poitou)
- 5 **Percheron** (Perche)
- 6 **Angevin** (Anjou)
- 7 **Cotentin**
- 8 **Bretagne**
- 9 **Charmoise** (Loir et Cher)

636.346 Pyrenese breeds
- 1 **Basquaise**
- 2 **Béarnaise**
- 3 **Landaise**
- 4 **Gasconne**
- 5 **Lauraguaise**
- 6 **Lot**
- 7 **Albigeois**
- 8 **Aveyron**
  - Varieties: Larzac, Lacaune, Olempe, Cevennes, Causse
- 9 **Barbarins**
  - Varieties: Millery, Lahune, Marthold

.35 Italian
- Neapolitan: long, broad or fat taild Bergamasker; Paduan; Italian or Sardinian, mountain

.36 Spanish breeds Merinos, etc.
- .361 Escurial or Estramadura
- .362 Guadaloupe
- .363 Pavlar
- .364 Infantado
- .365 Nigretti
- .366 Other Spanish
  - Aguirre, Atwood, Montares, Leonese, Churra
- .367 Other European merino breeds
  - 2 **British**
  - 3 **German**
    - 31 Prussian
    - 32 Hanoverian
    - 33 Saxon
    - 34 Silesian
    - 37 Hungarian
  - 4 **French: Rambouillet**
  - 8 **Danish, Swedish, etc.**
- .368 Other merino breeds
  - 1 **American**
  - 2 **Delaine**
  - 3
  - 4 **Australian**

.37 Other European sheep
- .371 Russian
- .372 North Europe: Scandinavia, Iceland, Faroe ilands
  - Ovis brachyura borealis
- .373 Southeast Europe
  - Long tail, broad or fat tail: Macedonian or Clementine
  - Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian

636.38 Other countries

.385 Asiatic

Short tail, hornd: Tartar, Kalmuck, Kinghir, Buriat fat rump (ovis steatopyga); stump tail (ovis brachycerca). See also 636.386
Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
Long tail, broad or fat tail, dumba (ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara
Arabian or Bedouin
Kabardian or Circassian

.386 African sheep

Long tail, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
Long and small tail, hevy fleece: Bischarin (Nubian), dinka (sheep with manes, ovis africana), high leg or Guinea sheep (Kongo), Morvan (longipes), Libyan or Fezzan, Zunu or Angola
Stump tail (ovis brachycerca). See also 636.385

.39 Goats

May be divided like 636.081–.089, but for utilization use .391

.391 Uses

Subdivide like 636.088 See note above

.392 British goats

Irish goat, longhaird
English goat, shorthaird

.393 German and Austrian goats

Hartz mt, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starkenburg, Westphalian, Wiesental

6 Swiss goats

Alpine or common goat
Blackneckt Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisberg

7 Toggenburg

8 Appenzell or flat-heded

9 Saanen or Sarnen, Gessenay or Gassenay

.394 French goats: Tarentaise

.395 Italian goats: Maltese

.396 Spanish goats

Hornless, Granada, Malaga
Shorthaird reds, Spanish-Maltese

.397 Other European goats

.398 Other goats

1 American goats

5 Asiatic goats

Tibet (China), Angora (Persia), Syrian

54 India

Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tarh (shaggy brown Himalayan goat)

6 African goats

Abyssinian (or Nubian), Guinea

62 Egypt

Egyptian (or Nile), Theban, Zaraibi

636.4 Swine

May be divided like 636.081–.089, but for utilization use .41

.41 Uses

Subdivide like 636.088. See note above

.42 English breeds

.421 Small black breeds

Use also for small breeds in general

1 **Essex**
2 **Sussex**
3 **Suffolk**

.422 Small white breeds

1 **Windsor**
2 **Small Yorkshire**
3 **Coleshill**

.424 Large white breeds

1 **Yorkshire**
2 **Lancashire**
3 **Cumberland**
4 **New Leicester**
5 **Lincolnshire**
6 **Suffolk**

.426 Medium colord breeds

Use also for medium breeds in general

1 **Black Berkshire**
2 **Red Tamworth**
3 **Red Berkshire**

.427 Medium white breeds

1 **Middle Yorkshire**
3 " **Suffolk**

.43 German and Dutch breeds

.431 Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian	Franconian	Halle	Suabian
Düsseltaler	Glanschwein	Luzern	Wurtemberg

.432 Hungarian short ear

Carpathian, Bergschlag
Bakonyer or Bakouner
Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish ilands	Holland	Mecklenburg	Schleswig-Holstein
Hanover	Jutland	Oldenburg	Westphalia

636.44 French

.441 Large-ear French Celtic breed
- Northeastern France
- Champagne

.443 Northwestern France
- Breton
- Norman Augeronne
- Craonnoise
- Mancelle
- Angevin

.445 Southwestern France Spanish origin
- French Perigord
- Quercy
- Limousin
- Gasconne
- Béarnaise

.447 Southeastern France
- Provence
- Roussillon
- Languedoc
- Bressane

.449 Swiss
- Grison Bündener

.45 Italian, Neapolitan, Maltese, Tuscon, Romagnole.

.46 Spanish and Portuguese

.47 Other European

.471 Curly bristles Southeastern Europe

.472 Serbian Syrmian
- Mongolicza or Mangalicza
- Curly-bristle Hungarian
- Milos
- Sumadia or Obrenovics

.473 Croatian

.474 Rumanian, Moldavian
- Anatolian
- Albanian

.475 Russian

.48 Other countries

.481 American breeds

.482 Poland-China

.483 Red Jersey or Duroc-Jersey

.484

.485 Asiatic: Chinese, Tonkin, Siamese

.486 Africa
- Cape breeds, Sennaar, Guinea

.489 Oceania
- Papuan

636.5 Poultry

May be divided like 636.081–.089, but for utilization use .51

.51 Uses

Subdivide like 636.088; e. g. 636.513 Capon. See note above

.52 English breeds

.521 Dorking

.522 Sussex or Surrey

.523 Kent

.524 Orpington

.525 Redcap

.526 Other English

Lincolnshire buffs

.527 Scotch grays

.528 Other Scotch

Scotch bakies or dumpies Jumpers Dumbartonshire

.53 German and Dutch breeds

.531 Hamburg

.532 Lakenfelder

.533 Ramelsloher

.536 Styrian

.537 Bohemian

.538 Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc. Magyar

.54 French and Belgian breeds

.541 Crèvecoeur

.542 Houdan

.543 La Flèche Le Mans Caux

.544 La Bresse, Louhans, Bourg, Bourbourg, Barbézieux, Coussade, Courtes-pattes

.545 Faverolles

.546 Gournay, Pavilly, Caumont

.547 Other

Coucou, French cuckoo, Mantes, Estaires

.548 Belgian breeds

Campenes or Campines, or Brackel; Brabant. Huttegen
Bredes or Guelders or Guelderlands. Coucou de Malines. Bruges

.55 Italian breeds

Use also as general number for Mediterranean breeds

.551 Leghorn

.552 Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders

.553 Polverara

.554 Ancona

636.56 Spanish breeds
- .561 Castilian
- .562 Minorcan
- .563 Black Spanish
- .564 Blue Andalusian
- .565 Prat

.57 Other European
- .571 Pavloff (Russian)
- .572 Siberian fetherfooted
- .573 Sultans

.58 Other countries
- .581 American breeds
  - 1 **Dominican, Dominique, Dominiker**
  - 2 **Jersey blue**
  - 3 **Bucks county**
  - 4 **Java**
  - 5 **Buckeye**
  - 6 **Winnebago**
- .582 **Plymouth rock**
- .583 **Wyandotte**
- .584 **Rhode Island red**
- .585 Asiatic breeds
  - 1 **Cochin China** **Shanghai**
  - 2 **Brahmaputra** **Brahma, Gray Chittagong**
  - 3 **Langshan**
  - 4 **Malay**
  - 7 **Japanese fowls**
    - White Yokohama
    - Phoenix
- .587 Special varieties
  - 1 **Bantams**
    - 11 Common
    - 12 Game
    - 13 Polish
    - 14 Asiatic
    - 15 Japanese
- .588 Other
  - 1 **Game**
    - 11 Azeel or Aseel
    - 12 English game
    - 13 Sebright (a bantam only)
    - 14 Cornish Indian, or Indian (in England), or Cornish (in America)
    - 15 Malay
  - 2 **Deformd**
    - Rumpless or tailless or Wallikiki; Turkey necks, naked necks, Gillikins, nude
  - 3 **Silkies**
  - 4 **Frizzles**

636.59 Other fowls
.592 Turkey
1 **Original species**
11 American, or N. American 'original' or wild turkey (meleagris Americana)
12 Mexican wild turkey (meleagris Mexicana)
13 Honduras wild turkey (meleagris ocellata)
14 Crested turkey
2 **Bronze**
English Cambridge turkey
3 **Narragansett**
4 **Buff**
5 **Slate or Austrian whites** (in England)
6 **White, or White Holland** (in America)
7 **Black, or Norfolk or black Norfolk** (in England)
8 **Bourbon red, or Bourbon butternut, or Kentucky red**
.593 Guinea fowl
.594 Fezant
.595 Peacock
.596 Pigeons
1 **High class fancy pigeons**
11 Pouters
12 English carrier
13 Runt
14 Barb
15 Shortface tumbler
2 **High class toy pigeons**
21 Fantail
22 Owls
23 Turbits
24 Frilbacks
25 Jacobins
26 Trumpeters
27 Scandaroons
28 Florentine amalgamated, Hen
31 Dragoon, Horseman
32 Priests
33 Brunswick
34 Oriental frils
35 Homers, white homing, Antwerp
4
5 **Other toy pigeons**

636.597 Ducks
- 2 **English breeds**
- 21 Aylesbury
- 22 Indian runner
- 23 Blue Swedish
- 4 **French breeds**
  - Rouen, colord Rouen, also cald Rhone and Roan
- 8 **Other countries**
- 81 American
- 82 Cayuga, black Cayuga
  - Also called Big black and Lake duck
- 83 Muscovy
  - Colord Muscovy, Musk duck, white Muscovy
- 85 Asiatic: Pekin, white Pekin
  - By Chinese cald Mandarin

.598 Goose
- 3 **German: Emden, white Emden**
- 4 **French: Toulouse, gray Toulouse**
- 7 **Sebastopol**
- 8 **Other countries**
- 81 Wild or Canadian Gray wild
- 85 Chinese: white, brown
- 86 African
  - Also cald Indian, gray African and Guinea
- 87 Egyptian Colord Egyptian
- 89 Spurwing (Australia)

.6 Birds
- For poultry see 636.5. Here are clast domesticated birds useful for plumage or work, and pet birds

.61 Birds useful for their fethers
- For geese see 636.598

.611 Ostriches

.62

.68 Song and ornamental birds

.681 Swan

.686 Cage and aviary birds

.7 Dogs
- May be subdivided like 636.081—.089, but for uses see 636.72—.765

.71 Breeds

.72 Utility dogs

.73 Draft and other work dogs

.74 Watch dogs, herd dogs

.75 Hunting and sleuth dogs Carrier dogs

.76 Pet dogs

.765 Toy dogs

.77 Dogs in art
- See also 758 Animal painting

.78 Dogs in literature
- Essays, stories, biografy, etc.

.79 Other topics

636.8 **Cats**
.81 Breeds
.87 Cats in art See also 758 Animal painting
.88 Cats in literature
Essays, stories, etc.
.9 **Other: rabbits, guinea pigs, etc.**

637 Dairy and dairy products

.1 **Milk**
.11 Economics
.113 Dairy farms
Description of individual farms
.116 Finances and accounts
.117 **Expenses**
.118 **Returns**
.1185 Sale price
.12 Production and composition
.121 Choice of dairy cows
.122 Special food
.124 Milking
Milk pails, milk stools, milking tube
.125 **Artificial milkers**
.127 Composition of milk
1 **Fat**
2 **Lactose, milk sugar, lactin; galactin**
3 **Casein**
6 **Milk testing**
Creamometer Lactobutyrometer Lactodensimeter Lactoscope
Galactometer Lactocrite Lactometer Percent tube
7 **Milk analysis**
.13 Care of milk
.131 Bildings, dairies
.132 Installation, apparatus
1 **Refrigerating apparatus, milk cooler**
2 **Heating apparatus**
3 **Pasteurizers**
7 **Receptacles** **Storage** **Milk pans**
.133 Preservation
1 **Chilling**
2 **Heating**
3 **Pasteurizing**
.135 Transportation and sale of milk
Milk cars, milk wagons, bottles, cans

637.14 Utilization Consumption
.141 Whole milk
.142 Condenst milk
.143 Milk powder
.144 " farina
.145 " sugar
.146 Fermented milk Kumis
.147 Skim milk
.148 Cream
.16 Accidents Alterations Diseases Impurities Adulterations
.17 Milk other than cow's milk
.171 Mare's milk
.172 Ass's "
.173 Ewe's "
.174 Goat's "
.18 Substitutes for milk
.181 Vegetable milks
.2 Butter
.21 Economics
.216 Finances and accounts
.217 Expenses
.218 Returns
.2185 Sale price
.22 Composition
.221 Character and properties of butter
.222 Constituents of butter
.223 Grades of butter
.225 Butter testing
.227 " analysis
.23 Preparation of butter
.231 Bildings Creameries Butter factories
.232 Installation, apparatus
1 Separators
11 Skimmers
12
13
14 Centrifugal separators
2 Churns
3 Washers
4 Workers
8 Presses, molds, stamps, etc.

637.233 Butter making
1 **Separating cream**
2 **Churning**
3 **Washing**
4 **Working**
5 **Salting**
6 **Pasteurization**
7 **Ripening**
.235 Transportation and packing
1 **Methods of packing** **Receptacles**
.24 Utilization Consumption
Including residues
.247 Buttermilk
.26 Alterations Diseases Impurities Adulterations
.27 Renovation
.28 Substitutes for butter
.281 Oleomargarin
.282 Butterin
.3 Cheese
.31 Economics
.316 Finances and accounts
.317 **Expenses**
.318 **Returns**
5 Sale prices
.32 Character and composition
.321 Character and properties
.322 Constituents
.323 Grades of cheese
.325 Cheese testing
.327 Cheese analysis
.33 Cheese manufacture
.331 Cheese factories
.332 Installation, apparatus
1 **Borlen**
2 **Curd mils**
3 **Presses**
.333 Cheesemaking
1 **Curdling** **Rennet**
2 **Refining**
3 **Pressing**
4 **Heating**
8 **Putting in molds**
.335 Transport, packing, etc.
1 **Packing**
2 **Storage**

637.34 Utilization Consumption
Including by-products
.345 Milk sugar
.347 Whey butter
.35 Varieties
.351 Rennet cheese from cow's milk
.352 Soft cheese, fresh, unripend
.353 " " ripend
2 English
3 German: Limburger
4 French: Brie, Camembert, Neufchatel
5 Italian: Gorgonzola
.354 Hard cheese
2 English: Cheshire, Cheddar, Sage, Stilton
3 German, Swiss, etc.: Emmental, Edam
4 French: Gruyère, Gex
5 Italian: Parmesan
6
7 Other European
.355 Rennet cheese from other than cow's milk
1 From sheep's milk: Roquefort, Texel
2 " goat's "
3 " reindeer "
4 " buffalo "
.356 Sourmilk cheese from cow's milk
Cottage cheese, Dutch cheese, pot cheese, smear-case
.357 Sourmilk cheese from other than cow's milk

638 Bees, silkworms, etc.

Insects whose products ar useful for food or manufactures

.1 Bees, honey, wax
.2 Silkworms
.3 Cochineal

639 Hunting, trapping, fish culture, etc.

See also 799 for sporting side

.1 Hunting, trapping, game preservs, etc.
Fox, skunk, etc. farms
.2 Fishing as an occupation
.3 Fish culture Pisciculture
Including turtle, terrapin, frogs
.4 Oysters and other mollusks Shelfish
Oyster, clam, mussel, snail, pearlfishing, scallop, quohog, cockle, winkle, periwinkle
.5 Crustaceans
Lobsters, crabs, crawfish, shrimps, prawns
.6 Other sea food
Sea urchin, echinus
.7
.8 Leeches

640 Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offis and other commercial bildings, churches, theaters, railway stations, ships and other public gathering places.

For economics of consumption, including standards of living, see 339; for care of library bildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

641 **Food, cookery**
642 Serving, entertaining
643 **Shelter, house, home**
644 Heat, light, ventilation
645 Furniture, furnishings Decoration
646 **Clothing, toilet**
647 **Administration, household management**
648 Sanitary precautions, cleaning
649 Nursery, sickroom

.1 **Theories, utility, etc.**
.2 **Compends**
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Study and teaching**

Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07

.71 Schools and experiment stations

See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711–.74 may be used for keeping all phases of the subject in 640

711 College and university courses and departments

Schools of college grade

.712 Secondary courses; high school
.713 Elementary courses; below high school
.714 Extension work

Courses for special needs: women's clubs, farmers' wives, etc.

.72 Research work: experiment stations, graduate courses

For Sage foundation see 306

73 Normal courses, teachers institutes, etc.
.74 Exhibits Museums
.9 **History**

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

.01 Gastronomy Epicurism

Plesures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25

.02 Compends
.03 Dictionaries, cyclopedias
.04 Essays, addresses, lectures
05 Periodicals
.06 Societies
.07 Study and teaching Cooking schools, classes and clubs
.08 Polygrafy
.09 History and description

Divided like 930–999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59

641.1 **Food chemically considerd Food values Tables**

For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury

613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents

.12 Proteids or nitrogenous foods

Meat, egs, nuts, legumes, etc. See also 612.398

.13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar See also 612.396

.14 Fats, oils

See also 612.397

.15 Inorganic food constituents

.16 Water

.17 Salts, mineral or ash constituents

.3 **Animal and vegetable foods**

Class here also works dealing both with food material and its preparation

Subdivided like 630 e.g. 641.33, Cereals, 641.34 Fruits

.31 Prices Relativ cost

Quality and other factors in buying for table

.4 **Food preservation Markets**

Subdivide like 664 (not yet completed)

For commercial methods see Chemic technology 664.8–.9; for transportation see 656 (subdivision not completed)

.5 **Cookery Cook books**

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5: in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

.52 Brekfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions

Under limitations of age, helth, ethical or religious theories, etc.

.562 Children

.563 Invalids and aged Hospital cookery

.564 Ethical limitations

.565 Religious limitations

.566 **Seasons and days: Lent, fast days, etc.**

.567 **Cults: Jews, Buddhists, etc.**

641.57 Special situations
Adaptation to large numbers, large variety, and limitations of time, place or appliances
.572 Hotel and restaurant cooking
.573 Army and navy cooking
See also 355
.574 Shipboard cooking
Exclusiv of navy
.575 Camp and travel cooking
.576 Railway dining and buffet cars
.577 Itinerant companies; circuses, etc.
Methods of feeding large numbers en route or in temporary shelters
.578 Camp cooking
.58 Special utensils or fuels
.583 Cooking by oil
Including oil and gas together
.584 Cooking by gas
.585 Cooking by alcohol Chafing dish recipes
.586 Cooking by electricity
.587 Cooking by apparatus heated by steam or hot water
.588 Cooking by slowly applied heat
Aladdin ovens, fireless cookers
.59 Cookery of special countries
Class here descriptions of national cookery or recipes for dishes characteristic of special countries or regions
.591 Frigid zone and cold wether
.592 Tropics and hot wether
Divide farther like 930–999, using these numbers preferably only for reference and shelving books under 641.5–.578
.6 Cookery; clast by material
Subdivide like 641.3
.7 Cookery; clast by process
.71 Baking, roasting
.72 Braising
.73 Boiling, simmering Soups
.74 Stewing
.75 Steaming
.76 Broiling, grilling
.77 Frying, sautering
.8 Composit dishes
Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper
.81
.82 Entrées Made dishes
.83 Salads
.84 Sandwiches
.85 Confectionery, candies, sweets, bonbons
.86 Ices: ice cream, sherbet, water ices, etc.
.87 Beverages Soft drinks
See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

.1 Home and family meals

Brekfast, lunch, dinner, supper. Menus and servis
For tables of chemic constituents and calories see 641.1

.2 Refreshments

Afternoon tea, sandwiches, ices, soft drinks

.3 Camp, picnic and travel lunches

Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578

.4 Entertaining

.41 Private entertainments

.42 Small numbers

Luncheons, dinners, etc.

.43 Large numbers

Receptions, balls, garden parties, etc.

.45 Public entertainments

Banquets, dinners, clambakes, etc. For history of banquets, eating, etc. see 394.1 under Public and social customs. For dining room see 643.4

.48 Toasts Table anecdotes and conversation

See also table talk in literary miscellany

.5 Table systems for large numbers

.51 Table d'hôte

.52 American plan

.53 European plan, à la carte

.54 Club: choice of combinations

.55 Harvard Memorial hall plan

Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras

.56 Mixt plan

Table d'hôte and à la carte; table d'hôte and club

.57 Lunch counters Cafeteria

.58 School lunch rooms

Management, prices, rules for payment, suitable food, freedom of choice, etc. See also 371.716 School meals

.6 Serving Carving

Directions for setting table, changing courses, etc.

.7 Table furnishings

Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings

.8 Table decoration

Selection and effectiv arrangement of flowers, colors, lights, centerpieces, etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds (city, village or country) see 614.77; for Sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relativ situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detacht rooms and bildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.31 Plan: situation and arrangement

Relation to rest of house. Housekeeper's requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detacht kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.

.332 Coal and wood Stoves and ranges

.333 Oil and oil stoves

.334 Gas and gas stoves

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish

.336 Electricity and electric stoves

.337 Steam heated cooking appliances Steam tables

.338 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and laborsavers

.35 Utensils

.36 Pastry room

.37 Storeroom, larder Refrigerators

.38 Care of kitchen and accessory rooms

.39

.4 Dining room and adjuncts

.45 Serving room Butler's pantry

.47 Other pantries

.48 Cupboards

.5 Other special rooms

.52 Baths, lavatories, toilets

.57 Sun rooms, solariums: sleeping balconies, etc.

.58 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telefones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 Systems of heating

Desiderata, relativ advantages for household

For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone

Open fire as household institution; mental influence

Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels

Relativ cost; clenliness; labor involved, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 Systems of lighting

Fixtures, fittings, accessories. Class here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium

See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 Acetylene

.315 Electricity

See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories

Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 Lanterns

.323 Table, banquet and piano lamps

.324 Standards

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies, wether strips

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricab ac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room

Class here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7–.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms Lavatories Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing a related to economics of laboring classes 331.83; bleaching and dyeing 667.1–.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textils 614.37; for uniforms and liveries see occupations to which they pertain

.01 Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, lectures, addresses

.05 Periodicals

.06 Societies Dress reform societies

.07 Study and teaching

.08 Polygrafy

.09 Adaptation to climate or season

.091 Clothing for cold wether and frigid zones

.092 " " hot " " tropics

.1 Materials Textils and fibers

With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textils and fibers see 677 Manufacture of textils

.11 Cotton

.12 Linen Flax Hemp

.13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.

.14 Silk

.15 Lether

.16 Fur

.17 Other animal materials: fethers, hair, whalebone

.18 Other vegetable materials

.181 Rubber

.182 Paper

.183 Celluloid

.184

.185 Straw Raffia

.186 Other fibers: jute

.19 Other materials Tinsel, aluminum, asbestos, etc.

.2 Sewing Knitting Crochet

For fancywork see 746

.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.

.24 Mending Darning

.26 Knitting and crochet Tatting
For machineknit goods see 677

.27 Crochet

.3 Clothing divided by wearers

Class here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade

.32 Clothing for men

.34 " " women

.36 " " children

646.4 **Clothing divided by purpose**

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42

Subdivisions .42–.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 Underwear

.43 Outer house garments

Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments

Cloaks, coats, overcoats, shawls, sweters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.46 Outer footwear

For hose see 646.42

.47 Garments for special purposes

Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

.5 **Millinery Outdoor hedgear**

See 687 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women

Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 **Cleaning Drycleaning**

For laundry see 648.1

.7 **Toilet Cosmetics Bathing**

Care of hair, nails, teeth, etc.

For historic customs see 391.5–.6. See also hygiene, 613.4 care of body

647 Household organization and administration

.1 **Household accounts: finances, cost**

See also bookkeeping 657

.2 **Personnel**

Intelligence offis, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29. For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager

Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foren "

Races and nationalities: orientals, negroes, etc.

647.25 Indoor servis

Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees

Emergency help, household registers

.3 Servis outside the house

Coachman, gardener, laborers

.6 Wages Hours Duties

.9 Cooperativ and collectiv housekeeping

Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms

See also 692.9 Bilding laws; 728 Residence architecture

.91 Tenements

See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements

.92 Apartments, flats

See also 728.2 Apartment house architecture

.93 Cooperativ housekeeping

See also 334.4 for economic aspect

.94 Hotels Clubs

See also 728.4 Clubhouse architecture; 728.5 Hotel architecture

.95 Restaurants, tea rooms, etc.

See also 642.5 Table systems for large numbers

.96 Public bildings Institutions

General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd

See also 362 Hospitals, asylums, etc; 365 Prisons

.97 Cottage systems

648 Sanitary precautions: laundry, cleaning

.1 Laundry Washing

Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5–.6; for pests see 648.7

.11 Administration Accounts

.12 Marking

.14 Equipment

Collectiv: specifications and cost. Class specific appliances with processes to which they belong

.15 Hand equipment

.16 Power "

.18 Supplies

Soap, starch, bluing, powders, reagents

.2 Washing

Requirements of temperature, ingredients, etc. for different materials Washing directions

.22 Washing by hand

.23 " machine

.25 Starching

.27 Bluing Tinting

648.3 **Drying Driers Extractors Wringers**
Confined or open air Temperature Effect on dyes of freezing, etc.

.4 **Ironing**

.42 By hand Sad irons
Electric and gas heated irons, etc.

.43 By machine Collar and shirt machines, fluting irons, etc.

.45 Power machinery Mangle

.5 **Cleaning and sanitation of house or bilding**
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52 Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54 Washing
Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2

.55 Polishing
Silver, knobs, scutcheons, pipes and other metals

6 **Disinfecting**
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus

.7 **Pests; traps, poisons, insectifuges**

649 Nursery Sickroom

This provides for persons requiring special adjustment of household administration: children and invalids

.1 **Care of children**
See also 136.7 Child study; 173.5 Duties of parents

.2 Rooms Nursery

.3 Food
See also 613.22 Diet of infants; 641.5 Cookery for children

.4 Clothing and care of body
See also 646.36 Childrens clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing

.5 Exercise Recreation
See also 613.7 Hygiene of recreation; 790 Amusements

.55 Amusements: toys, dolls, games

.6 Manners Habits
See also 173.6 Duties of children

.7

.8 **Care of invalids and the infirm Sickroom**

650 Communication Commerce

651 Offis equipment and methods

See tentativ table in separate herewith

652 Writing; material, typewriters, cipher

653 Abbreviations Shorthand

.01 **Theories Available material Shading Position Detacht vowels**

.02 **Practicability for general use Teaching in public schools**

For methods see 653.07

.03 **Speed** See also 653.046, Verbatim reporting

.04 **Applications**

.041 Personal notes and records

.042 Correspondence

.043 Amanuensis work

.044 Newspaper work

.045 Shorthand job offises

.046 Official reporting, court and legislativ

.047

.05 **Periodicals** If strictly limited to one system, class with that system

.06 **Societies** " " " "

.07 **Education Shorthand schools Teaching, privately or in classes**

.08

.09 **History** Divided by countries like 930–999

.1 **Abbreviations Omissions of silent letters, vowels, etc.**

Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4 Phonetic spelling; 421.8 Abbreviations

.2 **Abbreviation systems**

Brief longhand. Fonoscribing, etc. For telegrafic codes, see 652
Covers only systems of quick writing with common characters.

.3 **Stenografies**

Includes both discussions and systems with arbitrary signs and new characters

.31 Before 1837

.32 Gurney

.33 Gabelsberger

.34 Stolze (Dettmann)

.35 Taylor (Baker; Harding; Odell)

.36 Cross

.37 Scovil

.38 Duployé (Pernin, Sloan)

.4 **Phonetic shorthand Phonografies**

Limited to phonetic stenografy, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants

.41 Before Pitman (1837)

.42 Bell

.43 Jones

.44 Williams

.45

653.5 **Pitman old vowel scale systems**
.51 Benn Pitman
.52 Graham
.53 Scott-Brown
.54 Marsh
.55 Thornton
.56 Haven
.57 Allen
.58
.6 **Pitman new vowel scale systems**
.61 Izaac Pitman
.62 Munson
.63 Longley
.64 Burnz
.65
.7 **Connected vowel systems**
.71 Lindsley's takigrafy
.72 Everett
.73 Barrows
.74 Bishop
.8
.9 **Foren systems** Divided by languages like 400

The heds above are for English systems or (as in 653.3) foren systems adapted to and used for English. Other systems are groupt here by languages, but history of shorthand in special countries is in 653.09

654 Telegraf Cables Signals

For codes see 652

.1 **Telegrafic instruments**
.2 **Duplex, quadruplex, multiplex telegrafs, etc.**
.3 **Printing, perforating, dial telegrafs, etc.**
.4 **Telegrafic construction; poles, wires, condits, etc.**
.5 **Cables** **Submarine**
.6 **Telefones**
.7 **Alarms; burglar, fire** **Annunciators, bells**
.8 **Speaking tubes** **Pneumatic tubes**
.9 **Signals** See also 534.83 Navigation signals; 623.7 Military signals

655 Printing Publishing Copyright

.1 History of printing
.11 Origin, invention
.111 Claims of Gutenberg, Mainz
.112 Claims of Coster, Haarlem
.12 Celebrations, anniversaries
.121 1640
.122 1740
.123 1823
.124 1840
.13–.19 Printing in special countries Divided like 930–999

.2 Type and typesetting
.21 Type founding Tools of the art
.22 Electrotyping and stereotyping, etc. Patent blocks
For Photoelectrotyping, see 777
.23 Patent types, logotypes, etc.
.24 Faces, sizes, styles Specimen books
.25 Typesetting: composition, proofreading
Artistic composition: taste, display, job work
.26
.27 Imposition Locking up, etc.
.28 Typesetting and distributing machines Linotype, monotype

.3 Practical printing For Calico printing see 667.3
.31 Printing presses
.32 Press work: making ready Color printing Cuts
.33 Drying: hydraulic pressing, etc.
.34
.35 Stamps, stencils, etc.
.36 Machines: paging, numbering, addressing, etc.
See also 654.3 Printing telegrafs; 652 Typewriters
.37 Nature printing From plants, etc.
.38 Printing for blind See also 371.91 Education of blind

.4 History of publishing and bookselling
Divided by countries like 930–999

.5 Publishing and bookselling
.51 Selection of mss
For freedom of press *vs* censorship, see 323; Morals of press 179.1
.52 Relations to authors
Copyright payments, prices of mss bought
.53 Format
Size, paper, type, illustrations, binding
.54 Cost of manufacture
Retail prices and discounts to dealers
.55 Advertising, press copies and notices See 659.1 Advertising
.56 Retail bookselling Prices and discounts to buyers
.57 Subscription book publishing, canvassing
.58 Publishing societies
.59 Publishing by governments, institutions, etc.

655.6 **Copyright Literary property**

.61 Perpetual or common law right
Including ethics of copyright

.62 Copyright in other matter than books
Music, mss, lectures, trademarks

.63 International copyright
See also 341.5 International private law

.64–.69 Copyright in special countries
Divided like 940–999

656 Transportation: railroading, etc.
Running of trains, train and boat timetables, luggage and freight handling, lists of sailings: crews and shifts, disciplin, etc.
For mechanical interrelations of track and rolling stock see 625.2
For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for canal and 387 for river and ocean transportation

657 Bookkeeping Accounts SECRETARIAL

658 Business manuals Methods Tables
See tentativ table in separate herewith

659 Other topics

.1 **Advertising**

660 Chemic technology

.1 .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 .9 History of chemic technology

661 Chemicals

.1 **Chemic elements** Divided like 546

.2 **Acids: sulfuric, nitric, etc.**

.3 **Alkalies: potash, soda, ammonia**

.4 **Salts** For common salt see 664.4

.5 Ammonia salts

.6 Sulfates and nitrates

.7 Cyanids

662 Pyrotechnics Explosivs, matches, etc.

.1 **Pyrotechnics**

.2 **Explosivs** See 622.23 Blasting; 623.4 Ordnance

.3 Gunpowder

.4 Fuses, percussion caps

.5 **Matches**

.6 **Fuel: coal, peat, natural gas, etc.**

.7 Charcoal, coke See also 644.22 Domestic economy 669.8 Metallurgy

.8 Artificial fuel See also 644.2 Domestic economy 669.8 Metallurgy

663 Beverages See also 178 Temperance 614.35 Adulterations
.1 Fermented
.2 Wine
.3 Brewd
.4 Beer
.5 Distild
.6 Artificial mineral waters: soda water
.7
.8 Mixing drinks Barkeepers manuals
.9 Chocolate, coco Commercial mixing of teas, coffees, etc.

664 Foods
For Adulterations see 614.31 Public helth. See also 641 Domestic economy
.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter, oleomargarin Lard, compound lard
For butter, milk, and cheese see 637 Dairy
.4 Salt
.5 Spices Condiments
.6 Yeast Baking powder
For bred see 641.631 Cookery
.7
.8 Methods of preservation: fruits and vegetables
.9 Preservation of meat and fish

665 Oils Gases Candles Lamps
.1 Candles Torches
.2 Animal oils and fats See also 664.3 Foods
.3 Vegetable oils and fats
.4 Mineral oils: paraffin, ozocerite, asphaltum
.5 Petroleum, kerosene
.6 Lamps See also 644.32 Domestic economy
.7 Illuminating gases Calcium light
.8 Other gases
.9

666 Ceramics Glass, etc.
.1 Glass See also 748 Staind glass
.2 Enamel
.3 Ceramics See also 738 Pottery, porcelain
.4 Clay See also 553.61 Economic geology
.5 Porcelain
.6 Stoneware, earthenware, pottery
.7 Bricks Tiles See also 691.4 Bilding materials; 695.3 Roofing
.8 Artificial stone See also 691.3 Bilding materials
.9 Cements Limes Mortars See also 691.5 Bilding materials

667 Bleaching, dyeing, etc.

.1 Bleaching

.2 Dyeing Artificial colors Silk and wool

.3 Cotton dyeing and calico printing

.4 Inks: writing inks, indelible inks

.5 Printing inks

.6 Paints and pigments See also 698.1 House painting; 751 Fine arts

.7 Varnishes Polish Lacker See also 698.3 Varnishing

.8 Japan Blacking

.9

668 Other organic chemic industries

.1 Soap

.2 Glycerin

.3 Glue

.4 Gums and resins

.5 Essences, perfumery, essential oils and ethers, etc.
See also 646.7 Toilet

.6 Fertilizers See also 631.8 Agriculture

.7 Distillation: coal tar, etc.

669 Metallurgy and assaying

History of metals goes here, not in 553, 622, nor 671

.1 Iron and steel

.2 Gold and silver

.3 Copper

.4 Led

.5 Zinc

.6 Tin

.7 Mercury and other metals

.8 Fuels and furnaces Slags

.9 Assaying

670 Manufactures

Specific topics go where of most interest. These heds are for the *general* subject of metal, wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engin is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general hed is better; e. g. bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy

671 Articles made of metals
672 **Of iron and steel; stoves, cutlery, etc.**
673 **Of brass and bronze; bells, etc.** See also 739
674 Lumber and articles made of wood
675 Lether " " " " lether
676 Paper " " " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber and articles made of rubber
679 Celluloid and other

680 Mechanic trades Amateur manuals

681 Watch and instrument making
Catalogs of miscellaneous instruments. Class special instruments with their subjects
682 Blacksmithing
See also Zootechny, 636.0834 Shoeing
.1 **Horseshoeing**
683 Lock and gun making
684 Carriage and cabinet making
Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish. Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2
685 Saddlery and shoemaking Trunks
686 Bookbinding
687 Clothesmaking Hats
688
689 Other trades

690 Bilding

For Architectural construction, see 721

.1 Theories of construction .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of bilding construction

691 Material Processes Preservativs
Waterproofing See also 620.1 Strength of materials
.1 **Wood Creosoting, etc.**
.2 **Natural stone Paraffining, etc.**
.3 **Artificial stone Concrete**
.4 **Bricks Tiles Other ceramic products**
.5 **Lime Cement Plaster**
.6 **Glass**
.7 **Iron Steel Antirust processes**
.8 **Other metals**
.9 **Other materials**

692 Plans Specifications, etc.

.1 General drawings
.2 Detail drawings
.3 Specifications
.4 Contracts Agreements Bids Advertisements
.5 Estimates Quantities Costs
.6 Superintendence
.7 Supervision of accounts
.8 Professional servises Fees Commissions
.9 Bilding laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing

.1 Stone construction
.11 Bonds of stone work
.12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
.2 Brick construction
.21 Bonds of brick work
.22 Adobe or sundried brick, etc.
.3 Terra cotta construction Tile
.4 Hollow tile and porous terra cotta construction
.5 Concrete and beton construction
.6 Plastering
.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.
.7
.8 Fireproofing
.9

694 Carpentry: joinery, stairbilding

.1 Wood construction; general
.2 Joints of woodwork Framing
.3 Strengthend beams
.4 Posts Colums See also 721.31
.5 Paneld and lattist construction
.6 Joinery, general For Finishing, varnish, polish, etc. see 698 3
.7 Ornamental joinery Cabinet work
For cabinetmaking see 684
.8 Stairbilding See also 515.83 Stereotomy
.9 Other branches See also 721.87–.89

695 Roofing: slating, tiling For roof construction see 721.4
.1 Wood: shingle
.2 Slate
.3 Tile
.4 Metal: tin, copper, led, zinc
.5 Iron
.6 Asfalt Tar Concrete (Melted)
.7 Felt Asbestos Paper (In rolls)
.8 Textil: duck, canvas
.9 Thatch and other coverings

696 Plumbing Gas and steam fitting, etc.
.1 Plumbing For principles of sanitation see 628
.2 Gasfitting
.3 Steamfitting
.4 Rivets and riveted joints
.5 Screws and screw joints
.6 Rust or calkt joints
.7 Anchors Band irons
.8 Other branches
.9 Plumbing laws See also 614 Public helth

697 Heating and ventilation
See also sanitary engineering, 628.8; domestic economy, 644. For lighting see 628.9
.1 Fireplaces
.2 Stoves
.3 Furnaces
.4 Hot water, high and low pressure
.5 Steam, high and low pressure
For boilers, see 621.184; for power plants, see 621.19
.6 Gas: coal gas, water gas, natural gas
.7 Electric and other methods
.8 Smoke flues and chimneys
.9 Ventilation: air ducts, condits, fans

698 Painting Glazing Paperhanging
.1 Painting Oil
.2 Distemper and fresco
.3 Varnishing Polishing
.4 Other modes of protection
.5 Glazing For Staind glass see 748
.6 Paperhanging
.7 Textil hangings: tapestry
For tapestry design, see 745
.8 Relief work: lincrusta, stampt lether, etc.
.9 Other branches

699 Carbilding
Railway and tramway cars, passenger and freight, with or without motors. For highway cars see 629.2

Fine Arts

700 Fine arts

701 Philosofy: theories, utility, esthetics
702 Compends, outlines
703 Dictionaries, cyclopedias
704 Essays, lectures, addresses
705 Periodicals, magazines, reviews
706 Societies: transactions, reports, etc.
707 Education: study and teaching of art
708 Art galleries and museums
.1 **American: Corcoran, Metropolitan, Boston**
.2 **English: National, Hampton Court, Windsor**
.3 **German: Dresden, Munich, Berlin, Vienna**
.4 **French: Louvre, Luxembourg**
.5 **Italian: Vatican, Sistine, Pitti, Medici, Borbonico**
.6 **Spanish: Madrid, Seville**
.7 **Russian: St Petersburg, Hermitage**
.8 **Scandinavian: Copenhagen**
.9 **Other countries**
709 History of art in general. Divided like 930–999

710 Landscape gardening

Town and city planning For special cities see 914-919
711 Public parks
712 Private grounds, lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
See also 634.9 Forestry; 582 Botany
716 Plants Flowers
.1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Ferneries
717 Arbors Seats Outlooks
718 Monuments Mausoleums
719 Cemeteries See also 393.1 Earth burial; 614.61 Public helth

720 Architecture

.1 Theories, esthetics, architectonics .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies .7 Education, study, training, schools of architecture .8 Polygrafy. collections .9 General history of architecture, divided geograficly like 940–999

721 Architectural construction

.1 **Foundations** See also bridge engineering, 624.1 Foundations

.11 Foundation bed Nature of soil Load on foundation
Trial borings. Rock, sand, gravel, peat, quicksand

.12 Excavation: timbering, shoring

.13 Material for bilding foundations
Divided like 620.1

.132 Wood

.133 Stone, cement, concrete

2 **Stone, dimension or rubble**

5 **Cement**

6 **Concrete**

.134 Brick

.14 Pile foundations: general Material

.141 Sand piles

.142 Wood or timber piles

.143 Concrete piles

.147 Iron piles

.15 Pile foundations: method of sinking

.151 Piledriver

.152 Screw pile Boring anchor

.153 Disk pile

.154 Hydraulic pile

.155 Pneumatic pile

.16 Platform and other special foundations

.162 Timber platforms or gratings: plank foundations

.163 Concrete platforms

.164 Iron and concrete: reinforced concrete platforms

.165 Masonry platforms

.166 Concrete legs or stilts

.167 Cantilever foundations

.17 Subaqueous foundations

.171 Cofferdams

.172 Open crib or caisson Cylinder foundations

.173 Pneumatic caisson

.174 Freezing

.175 Pneumatic forcing

.176 Sunken wells: dredging thru wells

.177 Sunken tubes

721.2 **Walls**
.21 Wood and halftimberd
.22 Stone
.23 Artificial stone, concrete, pisé, etc.
.24 Brick
.25 Bases Water tables Belt courses
.26 Arcades Colonnades
.27 Cornises
.28 Gables and pediments See also 721.58 Gable roofs
.29 Other walls
.3 **Piers Colums**
.31 Wood See also Carpentry 694.4
.32 Stone
.33 Concrete, artificial stone
.34 Brick, terra cotta
.35 Iron, steel
.36 Fireproof Protected
.4 **Archt constructions**
See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms
.41 Arches, circular
.42 Arches, other forms
.43 Vaults, cylindric
.44 Vaults, groind
.45 Vaults, other forms
.46 Domes, circular
.47 Domes, other forms
.5 **Roofs** See also 695 Roof coverings; 624.9 Engineering, roofs; 729.35 Roof design
.51 Wood
.52 Masonry
.53 Glass
.54 Metallic
.55 Windows Openings in roofs
.56 Roof decoration: cresting. repoussé work, colord tiles, etc.
See also 695.3
.57 Spires and domes
.58 Gables See also 721.28 Gable walls
.59 Other forms of roofs
.6 **Floors and flooring**
.61 Wood Construction and coverings
.62 Stone " "
.63 Brick and hollow tile " "
.64 Metallic Compound " "
.65 Composit " "
.66 Parquetry Coverings only
.67 Mosaics " "
.68 Tiles See 695.3 Roofing tile
.69 Other coverings

721.7 **Ceilings**
For vaulted ceilings, see 721.4 and 729.34
.71 Wood
.72 Stone
.73 Brick or tiles with iron
.74 Metallic
.75 Concrete Plaster
.76
.77
.78
.79
.8 **Doors Gates Grilles Windows**
.81 Doors, wooden
.82 Doors, metallic
.83 Doors, sash, lattis, screen, etc.
.84 Windows, external
.85 Windows, internal
.86 Inclosures of doors and windows
Architraves Pilasters Jams Pediments Lintels, etc.
.87 Shutters Blinds Screens Grilles
.88 Fastenings Locks
.89 Other details
.9 **Iron and composit structures**
For strength of materials, see Engineering, 620.11
.91 Cast iron
.92 Wrought iron
.93 Steel
.94 Composit
.95 Iron and wood
.96 Iron and stone
.97 Iron and brick, tile, terra cotta Reinforced concrete
.98 Iron and glass
.99 Wood and glass

722 Ancient and Oriental architecture (Pagan)

See also 571.8 Prehistoric dwellings
.1 **Chinese Japanese**
.2 **Egyptian**
.3 **Phenician Tyrian Jewish Carthaginian Cypriote**
.4 **Indian (Asiatic)**
Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian
.5 **Chaldean Assyrian Babylonian Ancient Persian Sassanian**
.6 **Pelasgian Etruscan**
.7 **Roman** See 729.32 for Roman orders
.8 **Grecian** See 729.32 for Greek orders
.9 **Other: Aztec, Peruvian, Maya, Yucatan, etc.**

723 Medieval Christian Mohammedan

.1 **Early Christian**
.2 **Byzantine Armenian Russian**
.3 **Mohammedan: Saracenic, Moorish, Persian, Turkish, Indian** For Ancient Indian see 722.4
.4 **Romanesque**
.41 Scotch Irish
.42 English Saxon Norman
.43 German Austrian
.44 French Provençal Norman Angevin
.45 Italian Sicilian Norman
.46 Spanish Portuguese
.47
.48 Danish Swedish Norwegian
.49 Minor countries
.5 **Gothic or pointed** Divided like 723.4

724 Modern

All the subsections of 724 are subdivided geograficly like 940–999

.1 **Renaissance**
.19 Baroque Rococo
.2 **Grecian revival**
.3 **Gothic revival**
.4 **Victorian Gothic Tudor Elizabethan**
.5 **Queen Anne**
.59 Georgian
.6 **Néo-Grec**
.7 **Swiss Timber**
.8 **Romanesque revival**
.9 **Other styles**

725 Public bildings

.1 **Administrativ Governmental**
.11 Capitols Houses of parliament
.12 Ministries of war, state, etc.
.13 City and town halls Bureaus Public offises
.14 Custom houses Bonded warehouses Excise offises
.15 Court houses Record offises
.16 Post offises, general and special
.17 Official residences Palaces of rulers
.18 Barracks Armories Police stations
See also 623.61 Military bildings
.19 Engin houses Fire alarm stations

725.2 **Business and commercial**
.21 Stores, wholesale and retail
.22 Mixt store, offis, and apartment bildings
.23 Offis bildings: telegraf, insurance
.24 Banks: safe deposit, savings
.25 Exchanges Boards of trade
.26 Markets
.27 Cattle markets Stock yards
.28 Abattoirs
.29 Other business bildings
.3 **Transportation and storage**
.31 Railway passenger stations
.311 Small (country) stations
.312 Large (city) "
.313 Union stations
.314 Stations on 2 levels
.315
.316
.317 Street-car stations
.318 Elevated railway stations
.319 Underground railway stations
.32 Railway freight houses
.33 Railway shops, roundhouses, car houses, tanks, stores
.34 Dock bildings Wharf boats and houses
.35 Warehouses Cold storage Safe deposit storage
.36 Elevators, grain
.37
.38 Garages Livery stables
For private stables and garages see 728.94
.39 Other
.4 **Factories**
.41 Textil factories or mills: wool, cotton, silk
.42 Breweries Malteries Distilleries
.43 Foundries Machine shops Iron and steel works
.44 Woodworking mills Furniture factories
.45 Carriage and car factories
.46 Paper mills
.47 Mills for flour, meal, feed, etc.
.48 Pottery, glass, terracotta, brick works
.49 Other factories

725.5 Hospitals and asylums See also 725.6 Reformatories

.51 Sick and wounded Eye and ear Incurables Lying-in
.52 Insane
.53 Idiotic Feebleminded
.54 Blind Def and dum
.55 Paupers Almshouses
.56 Aged
.57 Children Orphans
.58 Foundling
.59 Soldiers homes

.6 Prisons and reformatories

.61 State prisons Penitentiaries
.62 Jails Cell houses
.63 Reformatories for adults Houses of correction
.64 Reform schools
.65 Washingtonian homes Inebriate asylums
.66

.7 Refreshment Baths Parks

.71 Cafés Restaurants
.72 Saloons
.73 Baths: warm, medicated, turkish, russian
.74 Swimming baths
.75 Bildings for watering places, spas, etc.
.76 Bildings for parks

.8 Recreation

.81 Music halls
.82 Theaters Opera houses
Grand stands, stadiums
.83 Halls for lectures, readings, etc.
.84 Bowling alleys Billiard saloons
.85 Gymnasiums Turn halls
.86 Skating rinks Bicycle rinks
.87 Boat houses
.88 Riding halls and schools
.89 Shooting galleries

.9 Other public bildings

.91 Exhibition halls
.92 Temporary halls Tabernacles Wigwams
.93 Workingmen's clubs and institutes
.94

726 Ecclesiastic and religious

.1 **Temples**
.2 **Mosques**
.3 **Synagogs**
.4 **Chapels** **Sunday school bildings**
.5 **Churches**
.6 **Cathedrals**
.7 **Monasteries** **Convents** **Abbeys**
.8 **Mortuary: cemetery chapels, receiving vaults, tombs**
.9 **Other: Y. M. C. A. etc.**

727 Educational and scientific

.1 **Schools**
Study and recitation rooms. Not including dormitory or boarding
.2 **Academies** **Seminaries** **Boarding schools**
.3 **Colleges** **Universities**
.4 **Professional and technical schools: law, theology, etc.**
.5 **Laboratories: physical, chemic** See 542.1 **biologic, etc**
Zoologic and botanic gardens See also 590.7 and 580.7
.6 **Museums** **Herbariums** See 580.7
.7 **Art galleries** **Studios**
.8 **Libraries** See 022 Library bildings
.9 **Other: learned societies, etc.**

728 Residences

.1 **Tenement houses**
.11 City homes of poor
.12 Country "
.13 Cités ouvrières
.2 **Apartment houses** **Flats** **Family hotels**
.3 **City houses** **Mansions** **Palaces**
.31 Between party walls Stone
.32 " " Brick
.33 " " Partly wood
.34 Semidetacht, including end houses in city blocks Stone
.35 " " " Brick
.36 " " " Partly wood
.37 Detacht Stone
.38 " Brick
.39 " Partly wood
.4 **Club houses** **Bildings for secret societies**
.5 **Hotels** **Inns**
.51 City hotels
.52 Summer resorts
.53 Country inns

728.6 **Village and country homes**
.61 Village dwellings; on small lots
.62 Stone
.63 Brick
.64 Concrete or stucco
.65 Part masonry, part wood
.66 All wood
.67 Farm houses
.68 Laborers cottages
.7 **Seaside and mountain cottages** **Chalets**
.8 **Country seats**
.81 Castles
.82 Chateaux
.83 Manor houses
.84 Villas
.9 **Outbildings**
.91 Porters lodges
.92 Servants quarters
.93 Kitchens and laundries
.94 Stables Carriage houses Garages
See also 725.38 Public garages and livery stables
.95 Barns Granaries
.96 Dairies
.97 Ice houses
.98 Conservatories Greenhouses Graperies
.99 Other

729 Architectural design and decoration

For decorativ illumination see 745

.1 **The elevation**
.11 Composition
.12 Distribution
.13 Proportion
.14 Light and shade
.15 Perspectiv effect
.16
.17
.18
.19

For projection of shadows and grafics of light and shadow see 515.63 and 5157.

.2 **The plan**
.21 Elements required
.22 Distribution
.23 Proportion

729.3 Elementary forms

For construction of these forms see 721

.31 Walls Moldings Cornises

.32 Piers, colums, pilasters, pedestals and the orders Colonnades

.33 Arches and arcades

.34 Vaults and domes

.35 Roofs Spires Dormers

.36 Towers

.37 Gables and pediments

.38 Doors and windows Bays Oriels

.39 Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbilding

.4 Painted decoration

See also 729.7 Mosaic

.41 Vegetable forms

.42 Animal forms

.43 Grotesque forms

.44 Conventional and geometric forms

.45 Painted moldings

.46 Painted friezes and panels

.47 Painted colums and pilasters

.48 Painted ceilings and vaults

.49 Painted walls

.5 Decoration in relief

For bas relief and figure carving see 730

.51 Vegetable forms

.52 Animal forms

.53 Grotesque forms

.54 Conventional and geometric forms

.55 Carvd moldings

.56 Carvd friezes and panels

.57 Carvd colums and pilasters

.58 Carvd ceilings and vaults

.59 Other carvd ornament

.6 Incrustation and veneering

.61 Of external walls (in brick, stone, or marble, tiles. etc.)

.62 Of interiors

.63 Intarsia and inlay

.64 Niellowork

.65 Enamel decoration

.66

.67

.68

.69

729.7 **Mosaic**
.71 Mosaic ceiling
.72 Mosaic walls
.73 Mosaic floors
.74 Other mosaic designs
.75
.76
.77
.78
.79
.8 **Staind glass design**
For technical processes see 666.1; for history see 748
.81 Geometric windows
.82 Medallion windows
.83 Canopy windows
.84 Figure windows
.85 Mosaic windows
.86 Other kinds of staind glass
.87
.88
.89
.9 **Architectural accessories and fixt furniture**
.91 Altars
.92 Pulpits Tribunes
.93 Dais Thrones
.94 Buffets
.95 Mantels Overmantels
.96 Screens Rood screen Reredos
.97
.98
.99

730 Sculpture

731 Materials and methods
732 Ancient
733 **Greek and Roman**
734 Medieval
735 Modern
736 Carving Seals Dies Gems Cameos
737 Numismatics Coins Medals
Artistic and historic side See also 332.4 Coins and coinage, as money
738 Pottery Porcelain
739 Bronzes Brasses Bricabrac

740 Drawing Decoration Design

Arts and crafts

741 Freehand Crayon Sketching from nature Caricatures Cartoons

Collections on any subject go with that subject with reference from 741

742 Perspectiv See also 515.6

743 Art anatomy Life school

744 Mathematic and scientific drawing See 515

Instructions for architectural and other mathematical drawing, with demonstrations (if any) subsidiary.
Textbocks with mathematical demonstrations in scientific order ar better in 515

745 Ornamental design: woven fabrics, carpets, wall paper, etc.

746 Art needlework Fancy work

747 Interior decoration Distemper Fresco Polychrome

748 Staind and iridescent glass For leding, see 698.5

749 Artistic furniture Fireplaces Frames, etc.

750 Painting

751 Materials and methods

752 Color See also 535.6 Optics

753 Epic Mythic Idealistic See 759.3 German schoo

754 Genre Still life See 759.4 French; and 759.9 Belgian

755 Religious, ecclesiastic See 759.5 Italian; and 759.6 Spanish

See also 246 Ecclesiology

756 Historical, battle scenes

757 Portrait

758 Landscape and marine Animals Flowers

759 Various schools of painting

.1 American
.2 English
.3 German
.4 French
.5 Italian
.6 Spanish
.7 Slavic
.8 Scandinavian
.9 Other schools

760 Engraving

761 Wood
762 Copper and steel
763 Lithografy
764 Chromolithografy
765 Line and stipple
766 Mezzotint and aquatint
767 Etching Dry point
768 Bank note and machine
769 Collections of engravings

770 Fotografy

771 Materials Fotografic chemistry
772 Processes
Silver: daguerreotype, talbotype
Collodion: ambrotype, etc.
Dry plate
Color fotografy
773 **Gelatin and pigment: woodburytype**
Carbon: lambertype, autotype, etc.
774 **Gelatin and printers ink**
Albertype, heliotype, artotype, etc.
775 Fotolithografy, etc.
776 Fotozincografy, etc.
777 Fotoengraving and fotoelectrotyping
778 Special applications
Moving pictures. See also 522.63 Astronomy; 578 Microscopy
779 Collections of fotografs

780 Music

.1 Philosofy and esthetics of music .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Education, conservatories .8 Polygrafy, libraries .9 History, divided by countries, like 930–999

All heds include the music itself and everything about it: score, libretto, history, criticism, etc.

781 Theory of music

- .1 **Mathematic and physical**
- .2 **Elementary and general**
- .3 **Harmony Thorobass**
- .4 **Counterpoint**
- .5 **Musical form**
- .6 **Composition and instrumentation**
- .7 **Oriental theories and forms Russian music**
- .8 **Ancient Grecian theories, modes, and forms**
- .9

782 Dramatic music

- .1 **Grand opera**
- .2 Epic Wagnerian
- .3 Other German grand opera
- .4 French grand opera
- .5 Italian grand opera
- .6 **Comic and satiric**
- .7 **Opera bouffe**
- .8 **Operettas and cantatas** See 783.4
- .9 **Pantomimes, masks, etc.**

783 Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7–8 Evangelistic use and Eucharistic music; 264.2 Public worship

- .1 **Organ and orchestral Accompaniment**
- .2 **Cathedral servises: masses, vespers, etc.**
- .21 Mass Communion servises
- .22 Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei
- .23 Proper of the season: offertory, sequence, gradual, tract
- .24 Choral servis: antiphonal, responsiv
- .25 Plain song
- .26 Litanies
- .27 Lenten and penitential: Good Friday, reproaches
- .28 Festival: Christmas, Easter, etc.
- .29 Processional Recessional

783.3 Oratorio Passion music
.4 Anthem Motet Sacred cantata
Polyphonic school, Palestrina. 16th century
.5 Chant: Gregorian, Anglican
.6 Chorale Tune Carol
.7 Evangelistic: mission, revival Sunday school
.8 Choir: men and boys Quartet Chorus
.9 Congregational singing Psalmody Hymnody

784 Vocal music

.1 Glee Madrigal Round Catch
.2 Aria Cavatina Recitative e. g. in oratorio, mass, opera
.3 Ballad and song
Romantic, idyllic, sentimental; e. g. modern German
.4 Popular ballads Volkslied; e. g. Irish, Scotch, etc.
.5 Festival; e. g. sängerbund, eisteddfod Competitiv
.6 College, society songs, and choruses
.7 Negro minstrelsy, plantation songs
.8 Collected songs
.81 Solos
.82 Duets
.83 Trios
.84 Quartets
.85 Other part songs
.86 Choruses
.87 Collections for male voices
.88 Collections for female voices
.89 Other special collections
.9 Vocal hygiene, culture, development, and methods Tonic sol-fa

785 Orchestral music

For dramatic orchestral music, see 782; sacred, 783.1

.1 Symphony
Three or more movements; e. g. adagio, andante, allegro, allegretto, scherzo, finale, etc.
.2 Dramatic, illustrativ, descriptiv, program, imitativ
e. g. Mendelssohn's Midsummer night's dream
.3 Romantic, idyllic
.4
.5 Overture: e. g. Beethoven's Leonores
.6 Concerto: orchestral with solo instrument
.7 Chamber music
.8 Suite
.9 Arrangements, transcriptions, potpourris

786 Piano and organ

.1 **Piano History**
.2 **Manufacture Tuning Temperament**
.3 **Instruction**
.4 **Piano music General collections**
For piano concerto, see 785.6
.41 Sonata Sonatina Rondo
.42 Fantasia Arabesque
.43 Nocturne Meditation Romantic Descriptiv
Songs without words
.44 March and march form Polonaise Polka Mazurka
.45 Dance form: national, classic, idealized
.46 Modern dance music Society, festiv
.47 Etudes Artistic For études for instruction, see 786.3
.48 Variations, transcriptions
.49 Arrangements
Four hands and more; e. g. orchestral music arranged for piano
.5 **Organ History**
.6 **Bilding**
.7 **Instruction**
.8 **Organ music** See also 783 Sacred music
.81 Sonata
.82 Fugue
.83 Preludes
.84 Interludes
.85 Postludes
.86 Offertories
.87 Voluntaries Improvisations
.88 Organ and piano
.89 Organ, piano, and orchestra
.9 **Cabinet organ Melodeon**

787 Stringd instruments

Including with each, history, manufacture, instruction, music, etc. Music for 2 instruments is put with the one most prominent in the composition

Bowd

.1 **Violin**
.2 **Viola**
.3 **Violoncello**
.4 **Double bass Contra bass**

Plectral

.5 **Harp**
.6 **Guitar Lute Mandolin, etc.**
.7 **Banjo**
.8 **Zither**
.9 **Other stringd instruments Harpsichord**

788 Wind instruments

Including with each, history, manufacture, instruction, music, etc.

Brass

.1 **Trumpet: slide and valv**
.2 **Trombone**
.3 **Cornet**
.4 **Horns and other brass wind instruments**
.41 French horn
.42 Saxhorn
.43 Saxophone
.44 Euphonium
.45 Ophicleide
.46 Key bugle
.47 Valv bugle
.48 Bass Tuba and contrabass tuba Serpent
.49 Other

Wood: flute group

.5 **Flute Waldflute Piccolo Fife Flageolet**

Wood: reed group

.6 **Clarinet Bass clarinet Bassethorn**
.7 **Oboe D'amore Da caccia Cor anglais**
.8 **Bassoon Double bassoon Bombardon**
.9 **Other reed wind instruments: bagpipe**

789 Percussion and mechanical instruments

Percussion

.1 **Drum**
.2 **Cymbals**
.3 **Triangle**
.4 **Tambourine Castanets Bones**
.5 **Bells: chimes, carillon**
.6 **Other percussion instruments: xylofone**

Mechanical

.7 **Orchestrion**
.8 **Music box**
.9 **Other mechanical instruments**

790 Amusements

For ethics of amusements, see 175

791 Public entertainment

Concert, panorama, circus, menagerie, summer resort, garden, rink, museum fair, festival

792 Theater Pantomime Opera

Passion plays. Fotoplays. See also 782 Dramatic music

793 Indoor amusements

Private theatricals, tableaux, charades, dancing

794 Games of skill

Chess, checkers, billiards, bowling, bagatel

795 Games of chance

Cards, dice, backgammon, dominoes

796 Outdoor sports

Children's sports, athletic sports, coasting, skating, cycling, quoits, archery, croquet, lawn tennis

797 Boating and ball

Rowing, yachting, baseball, football, cricket, polo

798 Horsemanship and racing

799 Fishing, hunting, target shooting

Literature

The classification, of literature is by *language*, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assignd to individual authors include only their *literary* works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works

801 Philosofy Theories Literary esthetics

802 Compends, outlines

803 Dictionaries, cyclopedias

804 Essays, lectures, addresses

805 Periodicals, magazines, reviews

806 Societies: transactions, reports, etc.

807 Study and teaching of literature

808 Rhetoric Treatises Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolografy .7 Satire, humor .8 Collections too general to go with any one language, e. g. a book of quotations from many languages

These heds, and the same under 809, include only works about poetry, etc. regardless of language

809 History of literature in general

Including general histories of books and knowledge; e. g. Hallam's *Literature of the middle ages*

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.

810 American literature

Includes Canadian English, which may be kept separate by prefixing C; e. g. C 811 Canadian poetry

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on American literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of American literature

811 American poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of American poetry

.1	**Colonial 1607–1776**	
.11	Sandys, George	1577–1644
.12	Bradstreet, Anne	1612–72
.13	Wigglesworth, Michael	1631–1705
.14	Green, Joseph	1706–80
.15	Livingston, William	1723–90
.16	Ferguson, Elizabeth	1739–1801
.2	**Post-revolutionary 1776–1830**	
.21	Trumbull, John	1750–1831
.22	Dwight, Timothy	1752–1817
.23	Barlow, Joel	1755–1812
.24	Freneau, Philip	1752–1832
.25	Alsop, Richard	1761–1841
.26	Pierpont, John	1785–1866
.27	Dana, Richard Henry	1787–1879
.28	Sprague, Charles	1791–1875
.29	Minor poets	
.3	**Middle 19th century 1830–61**	
.31	Halleck, Fitz-Greene	1790–1867
.32	Poe, Edgar Allan	1809–49
.33	**Bryant, William Cullen**	1794–1878
.34	**Longfellow, Henry Wadsworth**	1807–82
.35	Read, Thomas Buchanan	1822–72
.36	**Whittier, John Greenleaf**	1807–92
.37	**Lowell, James Russell**	1819–91
.38	Whitman, Walt	1819–92
.39		
.4	**Later 19th century 1861–1900**	
.41	Stoddard, Richard Henry	1825–1903
.42	Hayne, Paul Hamilton	1831–86
.43	Stedman, Edmund Clarence	1833–1908
.44	Winter, William	1836–1918
.45	Miller, Cincinnatus Hiner (Joaquin)	1841–1913
.46	Taylor, Bayard	1825–78
.47		
.48		
.49		
.5	**Early 20th century 1901–**	

812 American drama

.1	**Colonial 1607–1776**	
.11	Warren, Mercy	1728–1814
.12	Godfrey, Thomas	1736–63
.13		
.2	**Post-revolutionary 1776–1830**	
.21	Tyler, Royall	1757–1826
.22	Dunlap, William	1766–1839
.23	Hillhouse, James Abraham	1789–1841
.24	Ingersoll, Charles Jared	1782–1862
.25		
.3	**Middle 19th century 1830–61**	
.31	Ritchie, Anna Cora Mowatt	1818–70
.32	Mathews, Cornelius	1817–89
.33	Boker, George Henry	1823–90
.34		
.4	**Later 19th century 1861–1900**	
.41		
.5	**Early 20th century 1901–**	

813 American fiction

.1	**Colonial 1607–1776**	
.2	**Post-revolutionary 1776–1830**	
.21	Brackenridge, Hugh Henry	1748–1816
.22	Rowson, Susanna	1762–1824
.23	Brown, Charles Brockden	1771–1810
.24	**Cooper, James Fenimore**	1789–1851
.25	Ware, William	1797–1852
.26	Neal, John	1793–1876
.27		
.28		
.29		
.3	**Middle 19th century 1830–61**	
.31	Thompson, Daniel Pierce	1795–1868
.32	Kennedy, John Pendleton	1795–1870
.33	**Hawthorne, Nathaniel**	1804–64
.34	Judd, Sylvester	1813–53
.35	Simms, William Gilmore	1806–70
.36	Melville, Herman	1819–91
.37	Stowe, Harriet Beecher	1812–96
.38		
.39		
.4	**Later 19th century 1861–1900**	
.41	Alcott, Louisa May	1832–88
.42	Eggleston, Edward	1837–1902
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–1907
.45	Harte, Francis Bret	1839–1902
.46	James, Henry	1843–1916
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor novelists	
.5	**Early 20th century 1901–**	

814	**American essays**		
.1	**Colonial 1607–1776**		
.2	**Post-revolutionary 1776–1830**		
.21	Rush, Benjamin	1745–1813	
.22	Webster, Noah	1758–1843	
.23	Channing, William Ellery	1780–1842	
.3	**Middle 19th century 1830–61**		
.31	Ossoli, Margaret Fuller	1810–50	
.32	Giles, Henry	1809–82	
.33	Tuckerman, Henry Theodore	1813–71	
.34	**Holland, Josiah Gilbert**	1819–81	
.35	Whipple, Edwin Percy	1819–86	
.36	**Emerson, Ralph Waldo**	1803–82	See also 191.3
.37	Curtis, George William	1824–92	
.4	**Later 19th century 1861–1900**		
.41	Burroughs, John	1837–	
.42			
.43			
.44			
.5	**Early 20th century 1901–**		
815	**American oratory**		
.1	**Colonial 1607–1776**		
.11			
.12			
.2	**Post-revolutionary 1776–1830**		
.21	Hamilton, Alexander	1757–1804	
.22	Ames, Fisher	1758–1808	
.23	Wirt, William	1772–1834	
.24	Randolph, John	1773–1833	
.25	Clay, Henry	1777–1852	
.26	Calhoun, John Caldwell	1782–1850	
.27	Webster, Daniel	1782–1852	
.28			
.29			
.3	**Middle 19th century 1830–61**		
.31	Everett, Edward	1794–1865	
.32	Choate, Rufus	1799–1859	
.33	Sumner, Charles	1811–74	
.34	Phillips, Wendell	1811–84	
.35	Chapin, Edwin Hubbell	1814–80	
.36	Beecher, Henry Ward	1813–87	
.4	**Later 19th century 1861–1900**		
.41			
.42			
.43			
.5	**Early 20th century 1901–**		
816	**American letters**	Subdivided by periods, like 811	

817 American satire and humor

.1	**Colonial 1607-1776**	
.11	Ward, Nathaniel	1570–1653
.12	Alsop, George	1638– ?
.13	Byles, Mather	1706–88
.14	Hopkinson, Francis	1737–91
.15	Peters, Samuel Andrew	1735–1826
.2	**Post-revolutionary 1776–1830**	
.21	Story, Isaac	1774–1803
.22	Fessenden, Thomas Green	1771–1837
.23	Paulding, James Kirke	1779–1860
.24	**Irving, Washington**	1783–1859
.25	Verplanck, Gulian Crommelin	1786–1870
.26		
.27		
.3	**Middle 19th century 1830–61**	
.31	Neal, Joseph Clay	1807–47
.32	**Holmes, Oliver Wendell**	1809–94
.33	Shelton, Frederick William	1814–81
.34	Shillaber, B P (Mrs Partington)	1814–90
.35	Saxe, John Godfrey	1816–87
.36	Cozzens, Frederick Swartout	1818–69
.37	Browne, C: F (Artemus Ward)	1834–67
.38	Haliburton, Thomas Chandler	1796–1865
.39	Minor satirists and humorists	
.4	**Later 19th century 1861–1900**	
.41	Warner, Charles Dudley	1829–1900
.42	Locke, David Ross (P V Nasby)	1833–88
.43	Burdette, Robert J	1844–1914
.44	Clemens, S: L (Mark Twain)	1835–1910
.45	Carleton, William	1845–1912
.46	Shaw, Henry W (Josh Billings)	1818–85
.47		
.5	**Early 20th century 1901–**	

818 American miscellany

.3	**Middle 19th century 1830–61**	
.31	Thoreau, Henry David	1817–62
.32	Mitchell, Donald Grant (Ik Marvel)	1822–1908
.4	**Later 19th century 1861–1900**	
.5	**Early 20th century 1901–**	

819 Can. Liter.

819.04 Essays on Can Lit

819.08 - coll. Can Li

819.09 - Hist. of Can.

820 English literature

Canadian literature may be clast as British, if preferd, but separated by prefixing C to 820. See note to 810

820.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on English literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

821 English poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of English poetry

.1	**Early English 1066–1400**	
.11	Layamon	1150–1207
.12	Ormin	1187–1237
.13	Robert of Gloucester	1245–1307
.14	Minot, Lawrence	1313–52
.15	Langland, William	1332–99
.16	Barbour, John	1316–95
.17	**Chaucer, Geoffrey**	1340–1400
.18	Gower, John	1325–1408
.19	Minor writers	
.2	**Pre-Elizabethan 1400–1558**	
.21	Lydgate, John	1369–1461
.22	Skelton, John	1460–1529
.23	Dunbar, William	1460–1520
.24	Douglas, Gavin	1474–1522
.25	Hawes, Stephen	1483–1509
.26	Lyndsay, Sir David	1490–1555
.27	Wyatt, Sir Thomas	1503–42
.28	Surrey, Henry Howard, earl of	1517–47
.29	Minor writers	
.3	**Elizabethan 1558–1625**	
.31	**Spenser, Edmund**	1553–99
.32	Sidney, Sir Philip	1554–86
.33	Daniel, Samuel	1562–1619
.34	Drayton, Michael	1563–1631
.35	Davies, John	1569–1626
.36	Drummond, William	1585–1649
.37	Fletcher, Giles and Phineas	1585–1650
.38	Herbert, George	1593–1632
.39	Minor writers	
.4	**Post-Elizabethan 1625–1702**	
.41	Suckling, Sir John	1609–42
.42	Crashaw, Richard	1616–50
.43	Herrick, Robert	1591–1674
.44	Waller, Edmund	1605–87
.45	Lovelace, Richard	1618–58
.46	Cowley, Abraham	1618–67
.47	**Milton, John**	1608–74
.48	**Dryden, John**	1631–1700
.49	Minor writers	

821.5	**Queen Anne** Early 18th century	1702–45	
.51	Prior, Matthew	1664–1721	
.52	Parnell, Thomas	1679–1717	
.53	**Pope, Alexander**	1688–1744	See also 827.55
.54	Ramsay, Allan	1686–1758	
.55	Young, Edward	1684–1765	
.56	Thomson, James	1700–48	
.57	Collins, William	1721–59	
.58	Shenstone, William	1714–63	
.59	Minor writers		
.6	**Later 18th century** Pre-revolutionary	1745–1800	
.61	Gray, Thomas	1716–71	
.62	Akenside, Mark	1721–70	
.63	Chatterton, Thomas	1752–70	
.64	Goldsmith, Oliver	1728–74	
	See also 823.64 and 824.66		
.65	Cowper, William	1731–1800	
.66	Macpherson, James	1738–96	
.67	**Burns, Robert**	1759–96	
.68	White, Henry Kirke	1785–1806	
.69	Minor writers		
.7	**Early 19th century** Post-revolutionary	1800–37	
.71	Wordsworth, William	1770–1850	
.72	Coleridge, Samuel Taylor	1772–1834	
.73	Southey, Robert	1774–1843	
.74	Scott, Sir Walter	1771–1832	See also 823.73
.75	Moore, Thomas	1779–1852	
.76	Byron, George Gordon Noel, 6th lord	1788–1824	
.77	Shelley, Percy Bysshe	1792–1822	
.78	Keats, John	1795–1821	
.79	Minor writers		
.8	**Victorian period**	1837–1900	
.81	Tennyson. Alfred, 1st baron	1809–92	
.82	Browning, Elizabeth Barrett	1809–61	
.83	Browning, Robert	1812–89	
.84	Rossetti, Dante Gabriel	1828–82	
.85	Morris, William	1834–96	
.86	Swinburne, Algernon Charles	1837–1909	
.87			
.88			
.89	Minor writers		
.91	**Early 20th century**	1901–	

822 English drama

- Shakespeare

.1	**Early English**	1066–1400
.11	Chester plays	
.12	Coventry plays	
.13	Townley plays	

822.2	**Pre-Elizabethan**	**1400–1558**	
.21	Heywood, John	1506–65	
.22	Udall, Nicholas	1505–64	
.23	Bale, John	1495–1563	
.3	**Elizabethan**	**1558–1625**	
.31	Greene, Robert	1561–92	
.32	Marlowe, Christopher	1564–93	
.33	**Shakespere, William**	1564–1616	
.34	**Jonson, Ben**	1574–1637	
.35	**Beaumont, Francis**	1584–1616	
	and Fletcher, John	1579–1625	
.36	Webster, John	1582–1652	
.37	Massinger, Philip	1584–1640	
.38	Ford, John	1586–1639	
.39	Minor writers		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Davenant, Sir William	1605–68	
.42	Etherege, Sir George	1637–88	
.43	Crowne, John	1644–99	
.44	Wycherly, William	1640–1715	
.45	Otway, Thomas	1651–85	
.46	**Congreve, William**	1670–1729	
.47	Vanbrugh, Sir John	1666–1726	
.48	Farquhar, George	1678–1707	
.49	Minor writers		
.5	**Queen Anne** Early 18th century	**1702–45**	
.51	Dennis, John	1657–1734	
.52	Southerne, Thomas	1660–1746	
.53	Centlivre, Mrs Susannah (Freeman)	1668–1723	
.54	Cibber, Colley	1671–1757	
.55	Rowe, Nicholas	1674–1718	
.56	Gay, John	1688–1732	
.57	Lillo, George	1693–1739	
.58			
.59	Minor writers		
.6	**Later 18th century**	**1745–1800**	
.61	Garrick, David	1716–79	
.62	Foote, Samuel	1721–77	
.63	Colman, George, the elder	1732–94	
.64	Home, John	1724–1808	
.65	Cumberland, Richard	1732–1811	
.66	**Sheridan, Richard Brinsley**	1751–1816	See also 825.64
.67	Inchbald, Mrs Elizabeth (Simpson)	1753–1821	
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–1837**	
.71	Baillie, Joanna	1762–1851	
.72	Knowles, James Sheridan	1784–1862	
.8	**Victorian period**	**1837–1900**	
.91	**Early 20th century**	**1901–**	

823 English fiction

.1	**Early English**	**1066-1400**	
.2	**Pre-Elizabethan**	**1400-1558**	
	More's *Utopia*		
.3	**Elizabethan**	**1558–1625**	
	Lyly's *Euphues*		
.4	**Post-Elizabethan**	**1625–1702**	
.41	Harrington, James	1611–77	
.42	**Bunyan, John**	1628–88	
.43	Mackenzie, George	1636–91	
.44	Behn, Aphra	1640–89	
.5	**Queen Anne**	**1702–45**	
.51	DeFoe, Daniel	1661–1731	
.52	Fielding, Henry	1707–54	
.6	**Later 18th century**	**1745–1800**	
.61	Richardson, Samuel	1689–1761	
.62	Sterne, Laurence	1713–68	
.63	Smollett, Tobias George	1721–71	
.64	**Goldsmith, Oliver**	1728–74	
	See also 821.64 and 824.66		
.65	Mackenzie, Henry	1745–1831	
.66	Arblay, Frances (Burney), madame d'	1752–1840	
.67			
.68			
.69	Minor writers		
.7	**Early 19th century**	**1800–37**	
.71	Lewis, Matthew Gregory	1775–1818	
.72	Edgeworth, Maria	1767–1849	
.73	**Scott, Sir Walter**	1771–1832	See also 821.74
.74	Austen, Jane	1775–1817	
.75	Porter, Jane	1776–1850	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839	
.78	Marryat, Frederick	1792–1848	
.79	Minor writers		
.8	**Victorian period**	**1837–1900**	
.81	Brontë, Charlotte	1816–55	
.82	**Thackeray, William Makepeace**	1811–63	
.83	**Dickens, Charles**	1812–70	
.84	Lytton, Edward George Bulwer, 1st baron	1803–73	
.85	Kingsley, Charles	1819–75	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–81	
.87	Trollope, Anthony	1815–82	
.88	Cross, Mary Ann (Evans) Lewes [George Eliot]	1819–80	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

824 English essays

.3	**Elizabethan 1558–1625**		
	Francis Bacon 1561–1626		
.4	**Post-Elizabethan 1625–1702**		
	John Locke 1632–1704		
.5	**Queen Anne 1702–45**		
.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713	
.52	**Addison, Joseph**	1672–1719	
.53	Steele, Sir Richard	1671–1729	
.54	Budgell, Eustace	1686–1737	
.55			
.56			
.57			
.58			
.59			
.6	**Later 18th century 1745–1800**		
.61	Moore, Edward	1712–57	
.62	Kames, Henry Home, lord	1696–1782	
.63	**Johnson, Samuel**	1709–84	
.64	Hume, David	1711–76	See also 192.4
.65	Hawkesworth, John	1715–73	
.66	Goldsmith, Oliver	1728–74	
	See also 821.64 and 823.64		
.67	Gibbon, Edward	1737–94	
.68			
.69	Minor writers		
.7	**Early 19th century 1800–37**		
.71	Mackintosh, Sir James	1765–1832	
.72	Smith, Sydney	1771–1845	
.73	Jeffrey, Francis, lord	1773–1850	
.74	Brougham, Henry, 1st baron	1778–1868	
.75	**Lamb, Charles**	1775–1834	
.76	Hazlitt, William	1778–1830	
.77	Hunt, Leigh	1784–1859	
.78			
.79	Minor writers		
.8	**Victorian period 1837–1900**		
.81	De Quincey, Thomas	1785–1859	
.82	Carlyle, Thomas	1795–1881	
.83	Macaulay, Thomas Babington, 1st baron	1800–59	
.84	Helps, Sir Arthur	1817–75	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–1900	
.87			
.88			
.89	Minor writers		
.91	**Early 20th century 1901–**		

825 English oratory

For 'speakers' see 808.5

Subdivided by periods like 821

.6	**Later 18th century 1745–1800**		
.61	Chatham, William Pitt, 1st earl of	1708–78	
.62	**Burke, Edmund**	1729–97	
.63	Fox, Charles James	1749–1806	
.64	**Sheridan, Richard Brinsley**	1751–1816	See also 822.66
.65	Grattan, Henry	1750–1820	
.66	Pitt, William	1759–1806	

826 English letters

Subdivided by periods like 821

.2	**Pre-Elizabethan**	**1400–1558**
	Paston letters	
.5	**Queen Anne 1702–45**	
.51	Montagu, Lady Mary (Pierrepont) Wortley	1690–1762
.52	Chesterfield, Philip Dormer Stanhope, 4th earl of	1694–1773
.53		
.6	**Later 18th century 1745–1800**	
.61	Orford, Horace Walpole, 4th earl of	1717–97
.62	Montagu, Mrs Elizabeth (Robinson)	1720–1800

827 English satire and humor

.2	**Pre-Elizabethan 1400–1558**	
.21	Barclay, Alexander	1475–1552
.3	**Elizabethan 1558-1625**	
.31	Gascoigne, George	1537–77
.32	Harington, Sir John	1561–1612
.33	Hall, Joseph	1574–1656
.34	Marston, John	1575–1634
.35	Donne, John	1573–1631
.36		
.37		
.38		
.39		
.4	**Post-Elizabethan 1625-1702**	
.41	Wither, George	1588–1667
.42	**Butler, Samuel**	1612–80
.43	Marvell, Andrew	1620–78
.44	D'Urfey, Thomas	1625–1723
.45	Oldham, John	1653–83
.46	Brown, Thomas	1663–1704
.47	King, William	1663–1712
.48	Garth, Sir Samuel	1665–1719
.49	Minor writers	

827.5	**Queen Anne 1702-45**		
.51	Ward, Edward	1667–1731	
.52	**Swift Jonathan**	1667–1745	
.53	Mandeville, Bernard de	1670–1733	
.54	Arbuthnot, John	1675–1735	
.55	**Pope, Alexander**	1688–1744	See also 821.53
.56			
.57			
.58			
.6	**Later 18th century 1745–1800**		
.61	Churchill, Charles	1733–65	
.62	Amory, Thomas	1691–1788	
.63	Whitehead, Paul	1710–74	
.64	Junius *pseud.*	1679–1772	
.65	Wolcott, John [Peter Pindar]	1738–1819	
.66			
.67			
.68			
.7	**Early 19th century 1800–37**		
.71	Gifford, William	1757–1826	
.72	Hood, Thomas	1798–1845	
.73			
.74			
.75			
.76			
.8	**Victorian 1837–1900**		
.81	Jerrold, Douglas	1803–57	
.82			
.83			
.84			
.85			
.86			
.91	**Early 20th century 1901–**		

828 English miscellany

Anecdotes, ana, epigrams, quotations, etc. if illustrativ of any special subject (e. g. biografy, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon literature

.1	**Poetry**
.2	**Cædmon**
.3	**Beowulf**
.4	**Cynewulf**
.5	**Homilies and religious**
.6	**Ælfric**
.7	**Alfred the Great**
.8	**Miscellaneous**
.9	**Historic and biografic**

830 German literature

830.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on German literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

831 German poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of German poetry

.1	**Before the Crusades** —1150	
.11	*Hildebrandslied*	
.12	Otfried	
.13	*Ludwigslied*	
.14	*Muspilli*	
.2	**Middle high** 1150–1300	
.21	*Nibelungenlied*	
.22	*Gudrun*, and minor folk epics	
.23	Heinrich von Veldeke	–1200 See also 839.3112
.24	Wolfram von Eschenbach	
.25	Gottfried von Strassburg	
.26	Hartmann von Aue	1170–1220
.27	Walther von der Vogelweide	1170–1230
.28	Ulrich von Lichtenstein	1199–1276
.29	Minor writers	
.3	**Period of decline** 1300–1517	
.31	Horneck, Ottokar von	
.32	Hadamar von Laber	
.33	Hermann von Sachsenheim	–1458
.34	Büheler, Hans *Die sieben weisen meister*	1414–
35	Kaspar von der Röhn *Das heldenbuch*	
.36	*Theuerdank*	
.37	*Die Haimonskinder*	
.38	Mastersingers	
.39	Minor writers	
.4	**Reformation; new high** 1517–1625	
.41	Agricola, Martin	1486–1556
.42	Waldis, Burkard	1490–1558
.43	Alberus, Erasmus	1500–53
.44	**Sachs, Hans**	1494–1576
.45	Ringwaldt, Bartholomäus	1530–99
.46	Rollenhagen, Georg	1542–1609
.47	Andreä, Johann Valentin	1586–1654
.5	**Period of imitation** 1625–1750	
	The Silesian schools	
.51	Opitz von Boberfeld, Martin	1597–1639
.52	Flemming, Paul	1609–40
.53	Logau, Friedrich von	1604–55
.54	Gerhardt, Paul	1607–76
.55	Hofmannswaldau, Christian Hofmann von	1618–79
.56	Zesen, Philipp von	1619–89
.57	Brockes, Barthold Heinrich	1680–1747
.58	Bodmer, Johann Jakob	1698–1783
.59	Minor writers	

831.6	**Classic period 1750–1830**	
	For Göthe and Schiller, see 832.6	
.61	Gellert, Christian Fürchtegott	1715–69
.62	**Klopstock, Friedrich Gottlieb**	1724–1803
.63	Bürger, Gottfried August	1748–94
.64	**Herder, Johann Gottfried von**	1744–1803
.65	Voss, Johann Heinrich	1751–1826
.66	Körner, Karl Theodor	1791–1813
.67	Hölderlin, Johann Christian Friedrich	1770–1843
.68	Platen Hallermünde, August, graf von	1796–1835
.69	Minor writers	
.7	**Postclassic period 1830–56**	
.71	Arndt, Ernst Moritz	1769–1860
.72	Eichendorff, Joseph, freiherr von	1788–1857
.73	Uhland, Johann Ludwig	1787–1862
.74	Rückert, Friedrich	1789–1866
.75	**Heine, Heinrich**	1799–1856
.76	Niembsch von Strehlenau, Nikolaus	1802–50
.77	Auersperg, Anton Alexander, graf von [Anastasius Grün]	1806–81
.78	Freiligrath, Ferdinand	1810–76
.79	Minor writers	
.8	**Later 19th century 1856–1900**	
.81	Schefer, Leopold	1784–1862
.82	Kinkel, Johann Gottfried	1815–82
.83	Geibel, Emanuel	1815–84
.84	Bodenstedt, Friedrich Martin	1819–92
.85		
.86		
.87		
.88		
.89	Minor writers	
.91	**Early 20th century 1901–**	

832 German drama

.5	**Period of imitation 1625–1750**	
.51	Gryphius, Andreas	1616–64
.52	Lohenstein, Daniel Casper	1635–83
.53	Weise, Christian	1642–1708
.54	Gottsched, Johann Christoph	1700–76
.55	Gottsched, Luise Adelgunde Victorie (Culmus)	1713–62
.6	**Classic period 1750–1830**	
.61	**Lessing, Gotthold Ephraim**	1729–81
.62	**Göthe, Johann Wolfgang von**	1749–1832
.63	**Schiller, Johann Christoph Friedrich**	1759–1805
.64	Klinger, Friedrich Maximilian	1753–1831
.65	Iffland, August Wilhelm	1759–1814
.66	Kotzebue, August Friedrich Ferdinand von	1761–1819
.67	Werner, Friedrich Ludwig Zacharias	1768–1823
.68	Kleist, Heinrich Bernt Wilhelm von	1777–1811
.69	Minor writers	

832.7	**Postclassic period 1830–56**	
.71	Grabbe, Christian Dietrich	1801–36
.72	Griepenkerl, Wolfgang Robert	1810–36
.73	Grillparzer, Franz	1791–1872
.74	Birch-Pfeiffer, Charlotte	1800–68
.75	Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm]	1806–66
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–63
.78	Gutzkow, Karl Ferdinand	1811–78
.79	Minor writers	
.8	**Later 19th century 1856–1900**	
.81	Benedix, Julius Roderich	1811–73
.82	Mosenthal, Salomon Hermann	1821–77
.83	Brachvogel, Albert Emil	1824–78
.84	Gottschall, Karl Rudolph	1823–1909
.85	Lindau, Paul	1839–
.89	Minor writers	
.91	**Early 20th century 1901–**	

833 German fiction

.5	**Period of imitation 1625–1750**	
.51	Buchholtz, Andrew Heinrich	1607–71
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–76
.53	Anselm, Heinrich	1653–97
.54	*Robinsonaden*	
.55	*Der Neue Amadis*	
.6	**Classic period 1750–1830**	
.61	Wieland, Christoph Martin	1733–1813
.62	Richter, Jean Paul Friedrich	1763–1825
.63	Hardenberg, Friedrich von [Novalis]	1772–1801
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822
.65	La Motte Fouqué, Friedrich H; C;	1777–1843
.66	Arnim, Ludwig Achim von	1781–1831
.67	Hauff, Wilhelm	1802–27
.68	Chamisso, Adelbert von	1781–1838
.69	Minor writers	
.7	**Postclassic period 1830–56**	
.71	Zschokke, Johann Heinrich Daniel	1771–1848
.72	Brentano, Clemens	1778–1842
.73	Tieck, Ludwig	1773–1853
.74	Postl, Karl [Charles Sealsfield]	1793–1864
.75	Häring, Wilhelm [Wilibald Alexis]	1798–1871
.76	Hahn-Hahn, Ida, gräfin von	1805–80
.77	Gerstäcker, Friedrich	1816–72
.78	Hackländer, Friedrich Wilhelm	1816–77
.79	Minor writers	

833.8	**Later 19th century 1856–1900**	
.81	Auerbach, Berthold	1815–82
.82	Freytag, Gustav	1816–95
.83	Scheffel, Joseph Viktor von	1826–96
.84	Spielhagen, Friedrich	1829–1911
.85	Heyse, Paul Johann Ludwig	1830–1914
.86	Ebers, Georg	1837–98
.89	Minor writers	
.91	**Early 20th century 1901–**	

834 German essays
Subdivided by periods like 831

835 German oratory
" "

836 German letters
" "

837 German satire and humor

.2	**Middle high: minnesingers 1150–1300**	
.21	[Stricker, Der] *Der Pfaffe Amis* und *Beispiele*	
.22	*Salomon und Morolf*	
.3	**Period of decline 1300–1517**	
.31	*Reineke Vos* See also 839.371	
.32	Brant, Sebastian	1458–1521
.4	**Reformation: new high 1517–1625**	
.41	Murner, Thomas [Tyll Eulenspiegel]	1475–1537
.42	Fischart, Johann	1550–89
.5	**Period of imitation 1625–1750**	
.51	Moscherosch, Johann Michael	1601–69
.52	Rachel, Joachim	1618–69
.53	Wernicke, Christian	1660–1720
.54	Liscow, Christian Ludwig	1701–60
.6	**Classic period 1750–1830**	
.61	Rabener, Gottlieb Wilhelm	1714–71
.62	Blumauer, Aloys	1755–98

838 German miscellany
See 828, note

839 Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

.1 Low German

.2 Frisian Old Saxon

.3 Dutch literature Flemish

.31 Dutch poetry

.311 **Middle ages** 1200–1450
1 Jacob van Maerlant 1235–91 (2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250–94 4 Melis Stoke 1310 5 Dirc Potter 1428

.312 **Chambers of rhetoric** 1450–1600
1 Antonius de Rovere 1482 2 Anna Bijns 1500 3 Matthijs de Castelein 1488–1548 4 Cornelis Everaert 1550 5 Jan Baptist Houwaert 1533–99 6 Dirk Volkerszoon Coornhert 1522–90 7 Philipp Marnix 1538–98 8 Cornelis van Ghistele 1600 9 Minor writers

.313 **Period of the Republic** 1600–1700
1 **Jacob Cats,** 1577–1660 2 **Joost van der Vondel** 1587–1679 3 Marie Tesselschade Visscher 1594–1649 4 **Constantijn Huygens** 1596–1687 5 Reyer Anslo 1626–69 6 Geraert Brandt 1626–85 7 Jan Antoniszoon van der Goes (Antonides) 1647–84 9 Minor writers

.314 **Poetic societies** 1700–1800
1 Lucas Rotgans 1654–1710 2 Hubert Corneliszoon Poot 1689–1733 3 Arnold Hoogvliet 1687–1763 4 Sybrand Feitama 1694–1758 5 Willem van Haren 1710–68 6 Jacob Bellamy 1757–86 7 Hieronymus van Alphen 1746–1803 9 Minor writers

.315 **Modern period** 1800–
1 Willem Bilderdijk 1756–1831 2 Jan Frederik Helmers 1767–1813 3 Cornelis Loots 1765–1834 4 Hendrik Tollens 1780–1856 5 Isaac da Costa 1798–1860 6 Jan Jacob Lodewijk ten Kate 1819-89 9 Minor writers

.32 Dutch drama

.323 **Period of the Republic** 1600–1700
1 **Gerbrand Adriaenszoon Bredero** 1585–1618 2 **Corneliszoon Hooft** 1581–1647 3 Samuel Costa 1580–1650 4 Jan Vos 1620–67 5 Guillelmus Ogier 1619–89 6 Joachim Oudaan 1628–92 9 Other

.324 **Poetic societies** 1700–1800
1 Pieter Langendijk 1683–1756 2 Andries Pels 3 Balthasar Huydecoper 1695–1778 4 Onno Zwier van Haren 1713–79 5 Jan Nomsz 1738–1803 9 Minor writers

.325 **Modern period** 1800–
1 Samuel Iperuszoon Wiselius 1769–1845 2 Helvetius van den Bergh 1795–1865 3 Hendrik Jan Schimmel 1825–1906

.33 Dutch fiction

.334 **Poetic societies** 1700–1800
1 Elisabeth Bekker Wolff 1738–1804 2 Agatha Deken 1741–1804 3 Rhijnvis Feith 1753–1824

.335 **Modern period** 1800–
1 Adriaan Loosjes 1761–1818 2 Jacob Vosmaer 1783–1834 3 Jan Frederik Oltmans 1800–54 4 Jacob van Lennep 1802–68 5 Hendrik Conscience 1812–83 6 Anna Louisa Geertruida Bosboom-Toussaint 1812–86

.34 Dutch essays

.344 **Poetic societies** 1700–1800
Justus van Effen 1684–1735

.345 **Modern period** 1800–
1 Johannes Henricus van der Palm 1763–1840 2 Reinier Cornelis Bakhuizen van den Brink 1810–65 3 Everhardus Johannes Potgieter 1808–75 4 Nicolaas Beets 1814–1903 5 Coenraad Busken Huet 1826–86

.37 Dutch satire and humor

.371 **Middle ages** 1200–1450
Reinaert (van den vos Reinaerde) see 837.31

.374 **Poetic societies** 1700–1800
Arend Simonszoon Fokke 1755–1812

839.38 Dutch miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.381 **Middle ages** 1200–1450

Jan van Boendale (Jan de Clerc) *Chronicles*, 1280–1365

.384 **Poetic societies** 1700–1800

Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–73

.4 Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish literature

.71 Swedish poetry

.711 **Middle ages** 1200–1520

1 Nicolaus Hermanni 1391 2 Bishop Tomas 1443 3 Ericus Olai 1486 4 Ballads (Folkvisor)

.712 **Reformation** 1520–1640

1 Olaus Petri 1496–1552 2 Laurentius Petri 1499–1573

.713 **Age of Stjernhjelm** 1640–1740

1 **Georg Stjernhjelm** 1598–1672 2 Lars Johansson (Lucidor) 1640–74 3 Haquin Spegel 1645–1714 4 Israel Holmström 1660–1708 5 Gunno Eurelius Dahlstjerna 1661–1709 6 Johan Runius 1679–1713 7 Jacob Frese 1691–1729 8 Samuel von Triewald 1688–1743 9 Minor writers

.714 **Age of Dalin** 1740–80

1 Olof Carelius 1758 2 **Olof von Dalin** 1708–63 3 Hedvig Charlotta Nordenflycht 1718–63 4 Anders Odel 1718–73 5 Gustaf Filip Creutz 1729–85 6 Gustaf Fredrik Gyllenborg 1731–1808 7 Olof Bergklint 1733–1805 9 Minor writers

715 **Age of Gustavus** 1780–1800

1 **Karl Mikael Bellman** 1740–1795 2 Johan Henrik Kellgren 1751–95 3 Bengt Lidner 1757–93 4 Johan Gabriel Oxenstjerna 1750–1818 5 Tomas Thorild 1759–1808 6 Anna Maria Lenngren 1754–1817 7 Karl Gustaf af Leopold 1756–1829 8 Frans Mikael Frazén 1772–1847 9 Minor writers

.716 **Modern period** 1800–

1 Per Henrik Ling 1776–1839 2 Johan Olof Wallin 1779–1839 3 Esaias Tegnér 1782–1846 4 Erik Johan Stagnelius 1793–1823 5 Per Daniel Amadeus Atterbom 1790–1855 6 Karl Jonas Ludwig Almqvist 1793–1866 7 Johan Ludwig Runeberg 1804–77 8 Karl Vilhelm Böttiger 1807–79 9 Minor writers

.72 Swedish drama

.722 **Reformation** 1520–1640

1 Johan Messenius 1579–1637 2 Magnus Olai Asteropherus –1647 3 Andreas Johannis Prytz 1590–1655

.723 **Age of Stjernhjelm** 1640–1740

Isak Börk –1701

.725 **Age of Gustavus** 1780–1800

1 Karl Israel Hallman 1732–1800 2 Gustaf 3 (king) 1746–92 3 Olof Kexél 1748–96 4 Karl Evallsson 1756–1806

.726 **Modern period** 1800–

1 Johan Börjesson 1790–1866 2 Bernhard von Beskow 1796–1868 3 August Teodor Blanche 1811–68 4 Johan Kristofer Jolin 1818–84 5 Frans Hedberg 1828–1908 6 Per Johan Edvard Bäckström 1841–86

.73 Swedish fiction

.734 **Age of Dalin** 1740–1780

1 Jakob Henrik Mörk 1714–63 2 Jakob Vallenberg 1746–78

.736 **Modern period** 1800–

1 Sofia Margareta von Knorring 1797–1848 2 Magnus Jakob Crusenstolpe 1795–1865 3 **Fredrika Bremer** 1801–65 4 Karl Anton Wetterbergh (Onkel Adam) 1804–89 5 Emilie Flygare Carlén 1807–92 6 Zakris Topelius 1818–98 7 Viktor Rydberg 1829–95 9 Minor writers

839.74 Swedish essays

.746 **Modern period** 1800–

1 Benjamin Karl Henrik Höijer 1767–1812 2 Lorenzo Hammarsköld 1785–1827 3 Bernhard Elis Malmström 1816–65 4 Karl Julius Lénström 1811–93 5 Gustaf Håkan Jordan Ljunggren 1823–1905 6 Karl Rupert Nyblom 1832–1907

.77 Swedish satire and humor

.776 **Modern period** 1800–

1 Johan Anders Wadman 1777–1837 2 Erik Sjöberg (Vitalis) 1794–1828 3 Kristian Erik Fahlcrantz 1790–1866 4 Vilhelm August Detlof von Braun 1813–60 5 Gunnar Wennerberg 1817–1901

.78 Swedish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.781 **Middle ages** 1200–1520

Canon Mattias, *Bible translation*, –1350; Peder Månsson, *Encyclopedia*, –1534

.782 **Reformation** 1520–1640

1 Peder Andersson Svart, *History*, –1562 2 Erik Göransson Tegel, *History*, 1580–1636 3 Ægidius Girs, *History*, 1580–1639 4 Gustavus Adolphus (king), *History*, 1594–1632

.783 **Age of Stjernhjelm** 1640–1740

1 Olof Rudbeck, *Medicin*, 1630–1702 2 Urban Hjärne 1641–1724 3 Johan Peringskjöld, *History*, 1654–1720 4 Anders Rydelius, *Philosofy* 1671–1738 5 Anders Celsius, *Astronomy*, 1701–44 6 Emanuel Svedenborg, *Theology*, 1688–1772

784 **Age of Dalin** 1740–1780

1 Karl Gustaf Tessin, *History*, 1695–1770 2 Karl von Linné, *Botany* 1707–78 3 Johan Ihre, *Philology*, 1707–80 4 Sven Lagerbring *History*, 1707–87 5 Anders Johan von Höpken, *History*, 1712–89, 6 Olof Celsius, *History*, 1716–94 7 Anders af Botin, *History*, 1724–90 8 Torbern Olof Bergman, *Chemistry*, 1735–84 Karl Vilhelm Scheele, *Chemistry*, 1742–86

.786 **Modern period** 1800–

1 Erik Gustaf Geijer, *History*, 1783–1847 2 Anders Magnus Strinnholm, *History*, 1786–1862 3 Anders Fryxell, *History*, 1795–1881 4 Frederik Ferdinand Carlson, *History*, 1811–87

.8 Danish and Norwegian literature

.81 Danish and Norwegian poetry

.811 **Middle ages** 1100–1500

1 Anders Sunesen 2 Ballads (Kjæmpeviser)

.812 **Reformation** 1500–1560

Hans Tavsen 1494–1561

.813 **Learned period** 1560–1700

1 Anders Arrebo 1587–1637 2 Anders Bording 1619–77 3 Peder Syv 1631–1702 4 Thomas Kingo 1634–1703 5 Peder Dass 1647–1708 6 Dorthe Engelbrektsdatter 1635–1716 7 Sören Terkelsen 1661 8 Jacob Vorm 1642–93

.814 **Age of Holberg** 1700–1750

1 Jörgen Sorterup 1662–1723 2 Töger Reenberg 1656—1742 3 Kristian Falster 1690–1752 4 Hans Adolph Brorson 1694–1764 5 Ambrosius Stub 1705–58 6 Kristian Frederik Wadskjær 1712–79

.815 **Period of enlightenment** 1750–1800

1 Kristian Braunmann Tullin 1728–65 2 **Johannes Evald** 1743–81 3 Johan Herman Vessel 1742–85 4 Edvard Storm 1749–94 5 Kristen Henriksen Pram 1756–1821 6 Jens Baggesen 1764–1826 7 Knud Lyne Rahbek 1760–1830 8 Malte Konrad Bruun 1775–1826 9 Minor writers

.816 **Modern period** 1800–

1 **Adam Gottlob Oehlenschlager** 1779–1850 2 Bernhard Severin Ingemann 1789–1862 3 Nicolai Frederik Severin Grundtvig 1783–1872 4 Johannes Carsten Hauch 1790–1871 5 Henrik Wergeland 1808–45 6 Ludvig Bödtcher 1793–1874 7 Frederik Paludan-Müller 1809–76 8 Carl Ploug 1813–94 9 Minor writers

839.82 Danish and Norwegian drama

.823 **Learned period** 1560–1700

1 Hieronimus Justesen Rauch 1539–1607 2 Hans Kristensen Sthen 1544–1603 3 Peder Jensen Hegelund 1542–1614 4 Hans Thomsen Stege –1628 5 Jens Lönberg 1663–1700

.824 **Age of Holberg** 1700–1750

1 **Ludvig Holberg** 1684–1754

.825 **Period of enlightenment** 1750–1800

1 Charlotte Dorothea Biehl 1731–88 2 Johan Nordal Bruun 1745–1816 3 Ole Johan Samsöe 1759–96 4 Enevold Falsen 1755–1808 5 Thomas Thaarup 1749–1821 6 Kristian Levin Sander 1756–1819 7 Olaf Kristian Olufsen 1764–1827 8 Peter Andreas Heiberg 1758–1841 9 Minor writers

.826 **Modern period** 1800–

1 Casper Johannes Boye 1791–1853 2 Johan Ludvig Heiberg 1791–1860 3 Henrik Hertz 1798–1870 4 Thomas Overskou 1798–1873 5 Christian Knud Frederik Molbech 1821–88 6 Henrik Ibsen 1828–1906

.83 Danish and Norwegian fiction

.836 **Modern period** 1800–

1 Thomasine Christine Gyllembourg-Ehrensvärd 1773–1856 2 Steen Steensen Blicher 1782–1848 3 Christian Winther 1796–1876 4 **Hans Christian Andersen** 1805–75 5 Meyer Aaron Goldschmidt 1819–87 6 Holger Drachmann 1846–1908 7 **Björnstjerne Björnson** 1832–1910

.84 Danish and Norwegian essays

.845 **Period of enlightment** 1750–1800

Rasmus Nyerup 1759–1829

.846 **Modern period** 1800–

1 Niels Mathias Petersen 1781–1862 2 Sören Aaby Kierkegaard 1813–55 3 Rudolph Keyser 1803–64 4 Peter Andreas Munch 1810–63 5 Johan Sebastian Cammermeyer Welhaven 1807–73 6 Georg Morris Cohen Brandes 1842–

.87 Danish and Norwegian satire and humor

.875 **Period of enlightenment** 1750–1800

1 Peder Magnus Trojel 1743–96 2 Peder Kofoed Trojel 1754–84 3 Thomas Kristoffer Bruun 1750–1834

.88 Danish and Norwegian miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

.881 **Middle ages** 1100–1500

1 Saxo (Longus) Grammaticus, *History*, –1208 2 Svend Aagesen, *History*

.882 **Reformation** 1500–1560

1 Kristiern Pedersen (Father of Danish literature) 1480–1554 2 Povel Eliesen, *Sermons*, 1480– 3 Hans Mikkelsen, *Bible translation*, –1532 4 Peder Plade (Palladius) 1503–60 5 Henrik Smith, *Medicin*, –1563

.883 **Learned period** 1560–1700

History: Hans Svaning 1508–1584 Anders Sörensen Vedel 1542–1616 Peder Klausen 1545–1614 Arild Hvitfeld 1549–1609 Klaus Lyskander 1558–1623 Ole Worm 1588–1654 Peder Resen 1625–88

Theology: Niels Hemmingsen 1513–1600 Holger Rosenkranz 1574–1642 Jesper Brochmand 1585–1652

Science: Tyge Brahe, *Astronomy*, 1546–1601 Kaspar Bartholin, *Medicin*, 1585–1629 Thomas Bartholin, *Anatomy*, 1616–80 Ole Borch, *Medicin*, 1626–90 Niels Stensen, *Anatomy*, 1638–86 Ole Römer, *Astronomy*, 1644–1710

.884 **Age of Holberg** 1700–1750

1 Erik Pontoppidan, *History*, 1698–1764 2 Jacob Langebek, *History*, 1710–75 3 Frederik Kristian Eilschov, , 1725–50 4 Gerhard Schöning, *History*, 1722–80 5 Peder Frederik Suhm, *History*, 1728–98

.9 Gothic

840 French literature

840.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

841 French poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of French poetry

.1	**Early French 842–1400**	
.11	**Chanson de Roland** *Chanson de geste*	
.12	Wace, Robert	
.13	Marie de France	
.14	Chrestien de Troyes	–1191
.15	Quesnes de Bethune	–1228
.16	Thibaut 4, comte de Champagne	1201–53
.17	Rutebeuf	1230–
.18	**Roman de la rose**	
	Guillaume de Loris, 1195–1260 Jean de Meung, 1280–1320	
.19	Minor poets	
.2	**Transition period 1400–1500**	
.21	Chartier, Alain	1386–1458
.22	Orléans, Charles duc d'	1391–1465
.23	Coquillart, Guillaume	1421–1510
.24	Baude, Henri	1430–95
.25	Villon, François	1431–85
.26		
.27		
.28		
.29	Minor poets	
.3	**Renaissance 1500–1600**	
.31	Daurat, Jean	1510–88
.32	Du Bellay, Joachim	1524–60
.33	Belleau, Remy	1528–77
.34	Ronsard, Pierre de	1524–85
.35	Thiard, Pontus de	1521–1605
.36	Baïf, Jean Antonie de	1532–89
.37	Saluste du Bartas, Guillaume de	1544–90
.38	Desportes, Philippe	1546–1606
.39	Minor poets	
.4	**Classic period 1600–1715**	
.41	Malherbe, François de	1555–1628
.42	Maynard, François	1582–1646
.43	Racan, Honorat de Bueil, marquis de	1589–1670
.44	Chapelain, Jean	1595–1674
.45	**La Fontaine, Jean de**	1621–95
.46	Deshoulières, Antoinette (du Ligier de la Garde), Madame	1637–94
.47	Chaulieu, Guillaume Amfrye de	1639–1720
.48		
.49	Minor poets	

841.5	**18th century 1715–89**	
.51	Rousseau, Jean Baptiste	1670–1741
.52	Racine, Louis	1692–1763
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–84
.54	Delille, Jacques	1738–1813
.55	Roucher, Jean Antoine	1745–94
.56	Chénier, André Marie de	1762–94
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814
.58		
.59	Minor poets	
.6	**Revolution and empire 1789–1815**	
.61	Lebrun, Ponce Denis Écouchard	1729–1807
.62	Fontanes, Louis, marquis de	1757–1821
.63	Parseval Grandmaison, François Auguste	1759–1834
.64	Luce de Lancival, Jean Charles Julien	1764–1810
.65	Désaugiers, Marc Antoine Madeleine	1772–1827
.66	Campenon, François Nicolas Vincent	1772–1843
.67	Millevoye, Charles Hubert	1782–1816
.68		
.69	Minor poets	
.7	**Constitutional monarchy 1815–48**	
.71	**Béranger, Pierre Jean de**	1780–1857
.72	Delavigne, Jean François Casimir	1793–1843 See 842.72
.73	Deschamps, Émile	1791–1871
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869
.75	Reboul, Jean	1796–1864
.76	Vigny, Alfred Victor, comte de	1799–1863 See 842.75
.77	Musset, Louis Charles Alfred de	1810–57 See 842.76
.78	**Hugo, Victor Marie, comte**	1802–85
	See also 842.78 and 843.78	
.79	Minor poets	
.8	**Later 19th century 1848–1900**	
.81	Laprade, Pierre Marin Victor Richard de	1812–83
.82	Dupont, Pierre	1821–70
.83	Banville, Théodore Faullain de	1820–91
.84	Sully-Prudhomme, René François Armand	1839–1907
.85	Coppée, Francis Édouard Joachim	1842–1908 See 842.88
.86	Deroulède, Paul	1846–1914
.87		
.88		
.89	Minor poets	
.91	**Early 20th century 1901–**	

842 French drama

.1	**Early French 842–1400**	
.11	Mysteries and miracles	
.12	Adam de la Halle	1240–86
.13	Bodel, Jean	
.14		
.15		
.16		
.17		
.18		
.19	Minor dramatists	

842.2	**Transition period 1400–1500**		
.21	Gresban, Arnoul		
.22	Michel, Jean	–1493	
.23	Gringoire, Pierre	1480–1544	
.24			
.25			
.26			
.27			
.28			
.29	Minor dramatists		
.3	**Renaissance 1500–1600**		
.31	Le Coq, Thomas		
.32	Baïf, Lazare de		
.33	La Peruse, Jean Bastier de	1530–55	
.34	Jodelle, Étienne	1532–73	
.35	Grévin, Jacques	1538–70	
.36	La Taille, Jean de	1540–1608	
.37	Garnier, Robert	1545–1601	
.38	Larivey, Pierre de	1550–1612	
.39	Minor dramatists		
.4	**Classic period 1600–1715**		
.41	**Corneille, Pierre**	1606–84	
.42	**Molière, Jean Baptiste Poquelin,** ***called***	1622–73	
.43	Corneille, Thomas	1625–1709	
.44	Boursault, Edme	1638–1701	
.45	**Racine, Jean**	1639–99	
.46	Brueys, David Augustin de	1640–1723	
.47	Dufresny, Charles Rivière	1648–1724	
.48	Baron, Michel Boyron, *called*	1653–1729	
.49	Minor dramatists		
.5	**18th century 1715–89**		
.51	La Motte, Antoine Houdart de	1672–1731	
.52	Crébillon, Prosper Jolyot de	1674–1762	
.53	Destouches, Philippe Nericault	1680–1754	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763	See 843.52
.55	Piron, Alexis	1689–1773	
.56	**Voltaire, François Marie Arouet de**	1694–1778	See 843.54
.57	Sédaine, Michel Jean	1719–97	
.58	Beaumarchais, Pierre Augustin Caron de	1732–99	
.59	Minor dramatists		
.6	**Revolution and empire 1789–1815**		
.61	Ducis, Jean François	1733–1816	
.62	Collin-Harleville, Jean François	1735–1806	
.63	La Harpe, Jean François de	1739–1803	See 844.61
.64	Fabre d'Églantine, Philippe François Nazaire	1755–94	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833	
.66	Chenier, Marie Joseph	1764–1811	
.67	Picard, Louis Benoît	1769–1828	
68	Lemercier, Louis Jean Népomucène	1771–1840	
.69	Minor dramatists		

842.7	**Constitutional monarchy 1815–48**		
.71	Soumet, Alexandre	1788–1845	
.72	Delavigne, Jean François Casimir	1793–1843	See 841.72
.73	Scribe, Augustin Eugène	1791–1861	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864	
.75	Vigny, Alfred Victor, comte de	1799–1863	See 841.76
.76	Musset, Louis Charles Alfred de	1810–57	See 841.77
.77	**Dumas, Alexandre, the elder**	1806–70	See 843.76
.78	**Hugo, Victor Marie, comte**	1802–85	
	See also 841.78 and 843.78		
.79	Minor dramatists		
.8	**Later 19th century 1848–1900**		
.81	Labiche, Eugène Marin	1815–88	
.82	Ponsard, François	1824–67	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–95	
.85	Bornier, Henri de	1825–1901	
.86	Sardou, Victorien	1831–1908	
.87	Pailleron, Édouard	1834–99	
.88	Coppée, Francis Édouard Joachim	1842–1908	See 841.85
.89	Minor dramatists		
.91	**Early 20th century 1901–**		

843 French fiction

.2	**Transition period 1400–1500**		
.21	Christine de Pisan	1363–1431	
.22	Jean de Tuim		
.23	La Sale, Antoine de	1398–1462	
.24	Chastelain, Georges	1403–75	
.25			
.26			
.27			
.28			
.29	Minor writers		
.3	**Renaissance 1500–1600**		
.31	Marguerite de Navarre	1492–1549	
.32	Desperriers, Bonaventure	1500–44	
.33	Herberay, Nicolas d'	–1552	
.34	Du Fail, Noël	–1585	
.35	Bouchet, Guillaume	1526–1606	
.36	Beroalde de Verville, François	1558–1612	
.37			
.38			
.39	Minor writers		
.4	**Classic period 1600–1715**		
.41	Urfé, Honoré d'	1568–1625	
.42	Gomberville, Marin Le Roy de	1600–47	
.43	La Calprenède, Gauthier de Costes de	1602–63	
.44	Scudéry, Georges de	1601–67	
.45	Scudéry, Madeleine de	1607–1701	
.46	Cyrano de Bergerac, Savinien	1620–55	
.47	Perrault, Charles	1628–1703	
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–93	
.49	Minor writers		

843.5	**18th century 1715–89**		
.51	Le Sage, Alain René	1668–1747	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763	See 842.54
.53	Prévost d'Exiles, Antoine François	1697–1763	
.54	**Voltaire, François Marie Arouet de**	1694–1778	See 842 56
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–77	
.56	**Rousseau, Jean Jacques**	1712–78	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806	
.58	Florian, Jean Pierre Claris de	1755–94	
.59	Minor writers		
.6	**Revolution and empire 1789–1815**		
.61	St Pierre, Jacques Henri Bernardin de	1737–1814	
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817	
.63	Constant de Rebecque, Henri Benjamin	1767–1830	
.64	Maistre, Xavier de	1763–1852	
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848	
.66			
.67			
.68			
.69	Minor writers		
.7	**Constitutional monarchy 1815–48**		
.71	Beyle, Marie Henri [de Stendhal]	1783–1842	
.72	Nodier, Charles	1790–1844	
.73	**Balzac, Honoré de**	1799–1850	
.74	Sue, Marie Joseph, *called* Eugène	1804–57	
.75	Souvestre, Émile	1806–54	
.76	**Dumas, Alexandre, the elder**	1806–70	See 842 77
.77	Gautier, Théophile	1811–72	
.78	**Hugo, Victor Marie, comte** See also 841.78 and 842.78	1802–85	
.79	Minor writers		
.8	**Later 19th century 1848–1900**		
.81	Mérimée, Prosper	1803–70	
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–76	
.83	Feuillet, Octave	1822–90	
.84	Flaubert, Gustave	1821–81	
.85	Erckmann-Chatrian { Erckmann, Émile	1822–99	
	Erckmann-Chatrian { Chatrian, Alexandre	1826–90	
.86	About, Edmond François Valentin	1828–85	
.87	Cherbuliez, Victor	1829–99	
.88	Daudet, Alphonse	1840–97	
.89	Minor writers		
.91	**Early 20th century 1901–**		

844 French essays

.3	**Renaissance 1500–1600**		
.31	**Montaigne, Michel Eyquem de**	1533–92	
.4	**Classic period 1600–1715**		
.41	Du Vair, Guillaume	1556–1621	
.42	Saint-Évremond, Charles de Marguetel de Saint-Denis de	1613–1703	

844.5	**18th century 1715–89**	
.51	Fontenelle, Bernard le Bovier de	1657–1757
.52	Montesquieu, Charles le Secondat, baron de	1689–1755
.53	Alembert, Jean le Rond d'	1717–83
.6	**Revolution and empire 1789–1815**	
.61	La Harpe, Jean François de	1739–1803 See 842.63
.62	Joubert, Joseph	1754–1824
.63	Courier de Méré, Paul Louis	1772–1825
.64	Senancour, Étienne Pivert de	1770–1846
.7	**Constitutional monarchy 1815–48**	
.71	La Mennais, Hugues Félicité Robert de	1782–1854
.72	Villemain, Abel François	1790–1870
.73	Planche, Jean Baptiste Gustave	1808–57
.74	**Sainte Beuve, Charles Augustin**	1804–69
.75	Saint-Marc Girardin	1801–73
.76	Janin, Jules Gabriel	1804–74
.77	Nisard, Jean Marie Napoléon Désiré	1806–88
.8	**Later 19th century 1848–1900**	
.81	Quinet, Edgar	1803–75
.82	Renan, Ernest	1823–92
.83	Taine, Hippolyte Adolphe	1828–93
.91	**Early 20th century 1901–**	

845 French oratory

Subdivided by periods like 841

846 French letters

Subdivided by periods like 841

847 French satire and humor

.1	**Early French 842–1400**	
.11	Guyot de Provins	
.12	*Roman du Renard* See 837.31 and 839.371	
.13	Deschamps, Eustache	1320–1400
.3	**Renaissance 1500–1600**	
.31	Marot, Clément	1495–1544
.32	**Rabelais, François**	1495–1553
.33	*La Satyre Ménippée*	1594
.34	Aubigné, Théodore Agrippa d'	1550–1630
.35	Regnier, Mathurin	1573–1613
.4	**Classic period 1600–1715**	
.41	Viau, Théophile de	1590–1626
.42	Saint Amant, Marc Antoine Gérard	1594–1661
.43	Scarron, Paul	1610–60
.44	Benserade, Isaac de	1612–91
.45	Furetière, Antoine	1620–88
.46	**Boileau Despréaux, Nicolas**	1636–1711
.47	Regnard, Jean François	1655–1709
.5	**18th century 1715–89**	
.51	Gresset, Jean Baptiste Louis	1709–77
.52	Gilbert, Nicolas Joseph Laurent	1751–80
.7	**Constitutional monarchy 1815–48**	
.71	Barthélemy, August Marseille	1796–1867
.72	Barbier, Henri Auguste	1805–82

848 French miscellany

Subdivided by periods like 841

849 Provençal literature

.1 **Provençal poetry**

.11 1st period 900–1100

Poetry in hands of clergy. No folk poetry preservd. Form mainly epic Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent till 1486, then reunited to France

.111 Epic poetry

Boethius

.112 Lyric poetry

.119 Minor poetry Didactic

.12 Golden age 1100–1300

Poets mainly knights, but after 1250 almost exclusivly burghers. Lyric most important

.121 Romances of chivalry

Girart de Rossilho

.122 Historical poetry

Croisade contre les Albigeois

.123 Romans d'aventures

Flamenca

.124 Lyric poetry

.125 Bernart de Ventadorn, flourisht about 1140–95

.126 Born, Bertran de " " 1180–95

.127 Arnaut, Daniel " " 1180–1200

.128 Borneill, Guiraut de " " 1175–1220

.129 Minor poetry

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours

.13 Aftermath 1300–1500

Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigenses

.131 Poets of school of Toulouse

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'

.132 La Noble Leyczon

Religious poetry of Waldenses

.139 Minor poetry

.14 Decadence 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852

.141 Goudouli, Pierre de 1579–1649

.142 Despourrins, Cyprien 1698–1755

.143 Jasmin, Jacques 1798–1864

.144 Roumanille, Joseph 1818–91

.145 Aubanel, Jos. Marie J. Baptiste Théodore 1829–86

.146 Mistral, Frédéric 1830–1914

.149 Minor poetry

849.9 Catalan literature

.91 Catalan poetry

.911 **1st period** 1200–1350

Catalonia before 1137 ruled by French counts, then united to Aragon Language is closely allied to Provençal, in which first poets wrote. Mss scatterd; few as yet printed. Literature begins with James 1 (1213–76) who made Catalan the state language

For Ramon Muntaner see 849.9813

1 Raimon Lull 1225–1315 2 Febler 1250 9 Minor poets

.912 **2d period** 1350–1450

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante

.913 **Age of perfection** 1450–

From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. ' Balaguer '

1 March, Ausias –1460, greatest of Catalan poets 2 Fenolla, Bernard 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia 9 Minor poets

.93 Catalan fiction

.933 **Age of perfection** 1450–

Joanet Martorel –1400. *Tirant lo Blanch*, a chivalric romance

.98 Miscellany

.981 **1st period** 1200–1350

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner

1 James 1 (The Conqueror) 1213–76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265–1340 4 Ximenes 9 Minor authors

.982 **2d period** 1350–1450

Prose resists foren influences better than poetry. Many philosofic and theologic writings beside historical works

1 Tomich 2 Turell 9 Minor writers

850 Italian literature

850.1 Philosofy .2 Compends .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851 Italian poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Italian poetry

.1 Early Italian Age of Dante –1375

To deth of Boccaccio, 1375

.11	Protonotario, Stefano	–1250
.12	Arezzo, Guittone d'	–1294
.13	Guincelli, Guido	–1276
.14	Cavalcanti, Guido	1260–1300
.15	**Alighieri, Dante**	1265–1321
.16	Pistoia, Cino da	1270–1336
.17	Uberti, Fazio degli	–1369
.18	**Petrarca, Francesco**	1304–74
.19	Minor poets	

.2 Period of classic learning 1375–1492

From deth of Boccaccio, 1375, to deth of Lorenzo il Magnifico, 1492

.21	Frezzi, Federigo	–1416	
.22	Bojardo, Matteo	1430–94	
.23	**Medici, Lorenzo dei** (Il Magnifico)	1448–92	
.24	**Poliziano, Angelo**	1454–94	
.25	Benivieni, Girolamo	1453–1542	See 852.22
.26	Sannazzaro, Jacopo	1458–1530	
.29	Minor poets		

.3 Age of Leo the Tenth 1492–1542

From deth of Lorenzo il Magnifico, 1492, to convocation of council of Trent, 1542

.31	Bembo, Pietro	1470–1547	
.32	**Ariosto, Lodovico**	1474–1533	
.33	Rucellai, Giovanni	1475–1526	
.34	Molza, Francesco	1483–1544	See 853.33
.35	Tasso, Bernardo	1493–1569	
.36	Alamanni, Luigi	1495–1556	
.37	Guidiccioni, Giovanni	1500–41	
.38	Casa, Giovanni della	1503–56	
.39	Minor poets		

.4 Later 16th century 1542–85

From convocation of council of Trent, 1542, to pontificate of Sixtus 5, 1585

.41	Costanzo, Angelo di	1507–91
.42	Rota, Bernardino	1509–75
.43	Tansillo, Luigi	1510–68
.44	Magno, Celio	1536–1602
.45	Guarini, Giovambattista	1537–1612
.46	**Tasso, Torquato**	1544–95
.47	Baldi, Bernardino	1553–1617
.49	Minor poets	

851.5 **Period of decline 1585–1748**

From pontificate of Sixtus 5, 1585–90, to peace of Aix-la-Chapelle, 1748

.51	Chiabrera, Gabriello	1552–1637
.52	Marini, Giovambattista	1569–1625
.53	Testi, Fulvio	1593–1646
.54	Filicaja, Vincenzo	1642–1707
.55	Guidi, Alessandro	1650–1712
.56	Manfredi, Eustachio	1674–1738
.57	Frugoni, Carlo Innocenzo	1692–1768
.58	Algarotti, Francesco	1712–64
.59	Minor poets	

.6 **Period of renovation 1748–1814**

From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814

.61	Paradisi, Agostino	1736–83
.62	Mascheroni, Lorenzo	1750–1800
.63	Pindemonte, Ippolito	1753–1828
.64	Monti, Vincenzo	1754–1828
.65	Cassi, Francesco	1778–1846
.66	Foscolo, Ugo	1779–1827
.67	Arici, Cesare	1782–1836
.68	Sestini, Bartolommeo	1792–1822
.69	Minor poets	

.7 **Early 19th century 1814–59**

From congress of Vienna, 1814, to war of Independence, 1859

.71	Berchet, Giovanni	1783–1851	
.72	Rossetti, Gabriello	1783–1854	
.73	Manzoni, Alessandro	1785–1873	See 853 72
.74	Marchetti, Giovanni	1790–1852	
.75	Leopardi, Giacomo	1798–1837	
.76	Carrer, Luigi	1801–50	
.77	Regaldi, Giuseppe	1809–83	
.78	Prati, Giovanni	1815–84	
.79	Minor poets		

.8 **Later 19th century 1859–1900**

From war of Independence, 1859, to 1900

.81	Aleardi, Aleardo	1810–78
.82	Zanella, Giacomo	1820–88
.83	Gnoli, Domenico	1839–
.84	Carducci, Giosuè	1835–1907
.85	Fogazzaro, Antonio	1842–1911
.86	Rapisardi, Mario	1844–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor poets	

.91 **Early 20th century 1901–**

852 Italian drama

.1 **Early Italian Age of Dante –1375**

.2 **Period of classic learning 1375–1492**

.21	Belcari, Feo	1410–84	
.22	Poliziano, Angelo	1454–94	See 851.24
.29	Minor dramatists		

852.3	**Age of Leo the Tenth 1492–1542**		
.31	Machiavelli, Niccolò	1469–1527	See also 854.31
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520	
.33	Trissino, Gian Giorgio	1478–1550	
.34	Aretino, Pietro	1492–1556	
.35	Ambra, Francesco d'	–1558	
.39	Minor dramatists		
.4	**Later 16th century 1542–85**		
.41	Speroni, Sperone	1500–88	
.42	Giraldi, G. B. Cinzio	1504–73	See also 853.44
.43	Cecchi, Giovanni Maria	1517–87	
.44	Asinari, Federigo	1527–76	
.45	Porta, Giovambattista della	1538–1615	
.49	Minor dramatists		
.5	**Period of decline 1585–1748**		
.51	Buonarroti, Michelangiolo jr	1564–1646	
.52	Rinuccini, Ottavio	1565–1622	
.53	Andreini, Giovambattista	1578–1650	
.54	Gigli, Girolamo	1660–1722	
.55	Zeno, Apostolo	1669–1750	
.56	Maffei, Scipione	1675–1755	
.57	Trapassi, Pietro (Metastasio)	1698–1782	
.59	Minor dramatists		
.6	**Period of renovation 1748–1814**		
	For Manzoni, see 851.73 and 853.72		
.61	**Goldoni, Carlo**	1707–73	
.62	Gozzi, Carlo	1722–1806	
.63	Capacelli Albergati, Francesco	1728–1804	
.64	**Alfieri, Vittorio**	1749–1803	
.65	Nota, Alberto	1775–1847	
.66	Biondi, Luigi	1776–1839	
.67	Benedetti, Francesco	1785–1821	
.69	Minor dramatists		
.7	**Early 19th century 1814–59**		
.71	Niccolini, Giovambattista	1782–1861	
.72	Pellico, Silvio	1788–1854	
.73	Giacometti, Paolo	1816–81	
.74	Gherardi del Testa, Tommaso	1818–82	
.75	Ferrari, Paolo	1822–89	
.79	Minor dramatists		
.8	**Later 19th century 1859–1900**		
.81	Bersezio, Vittorio	1830–1900	
.82	Cossa, Pietro	1833–82	
.83	Carrera, Valentino	1834–95	
.84	Marenco, Leopoldo	1831–99	
.85	Cavallotti, Felice	1842–98	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor dramatists		
.91	**Early 20th century 1901–**		

853 Italian fiction

.1	**Early Italian Age of Dante**	**–1375**	
.11	"Cento Novelle Antiche" (Gualteruzzi's collection)		
.12	Barberino, Francesco da	1264–1348	
.13	Pisa, Guido da	–1350	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–75	
.19	Minor writers		
.2	**Period of classic learning**	**1375–1492**	
.21	Sacchetti, Franco	–1400	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–97	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor writers		
.3	**Age of Leo the Tenth**	**1492–1542**	
.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561	
.33	Molza, Francesco	1483–1544	See also 851.34
.34	Firenzuola, Agnolo	1493–1548	
.39	Minor writers		
.4	**Later 16th century**	**1542–85**	
.41	Grazzini, Antonfrancesco (Lasca)	1503–83	
.42	Doni, Antonfrancesco	1513–74	
.43	Erizzo, Sebastiano	1525–85	
.44	Giraldi, G. B. Cinzio	1504–73	See also 852.42
.45	Parabosco, Girolamo	–1560	
.49	Minor writers		
.5	**Period of decline**	**1585–1748**	
.6	**Period of renovation**	**1748–1814**	
.7	**Early 19th century**	**1814–59**	
.71	Rosini, Giovanni	1776–1855	
.72	**Manzoni, Alessandro**	1785–1873	See also 851 73
.73	Grossi, Tommaso	1791–1853	
.74	Guerrazzi, Francesco Domenico	1804–73	
.75	Bresciani, Antonio	1798–1862	
.76	Cantù, Cesare	1807–95	
.77	Carcano, Giulio	1812–83	
.78	Azeglio, Massimo d'	1800–66	
.79	Minor writers		
.8	**Later 19th century**	**1859–1900**	
.81	Castellazzo, Luigi	1827–90	
.82	Barrili, Anton Giulio	1836–1908	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaele	1838–	
.88	Serao, Matilde	1856–	
.89	Minor writers		
.91	**Early 20th century**	**1901–**	

854 Italian essays

.1	**Early Italian Age of Dante**	–1375	
.11	Cavalca, Fra Domenico	–1342	
.12	Passavanti, Fra Jacopo	–1357	
.2	**Period of classic learning**	1375–1492	
.21	Alberti, Leone Battista	1404–72	
.22	Palmieri, Matteo	1405–75	
.23	Bisticci, Vespasiano da	1421–98	
.24	Collenuccio, Pandolfo	–1504	
.25	Vinci, Leonardo da	1452–1519	
.29	Minor essayists		
.3	**Age of Leo the Tenth**	1492–1542	
.31	Machiavelli, Niccolò	1469–1527	See also 852 31
.32	Nardi, Jacopo	1476–1555	
.33	Castiglione, Baldassare	1478–1529	
.34	Guicciardini, Francesco	1482–1540	
.35	Giannotti, Donato	1494–1573	
.36	Giambullari, Pier Francesco	1495–1555	
.37	Gelli, Giovambattista	1498–1563	
.38	Varchi, Benedetto	1503–66	
.39	Minor essayists		
.4	**Later 16th century**	1542–85	
.41	Castelvetro, Ludovico	1505–71	
.42	Piccolomini, Alessandro	1508–78	
.43	Borghini, Vincenzo	1515–80	
.44	Davanzati, Bernardo	1529–1606	
.45	Salviati, Leonardo	1540–89	
.46	Ammirato, Scipione	1531–1601	
.47	Paruta, Paolo	1540–98	
.48	Botero, Giovanni	1540–1617	
.49	Minor essayists		
.5	**Period of decline**	1585–1748	
.51	Sarpi, Paolo	1550–1623	
.52	Galilei, Galileo	1564–1642	
.53	Bartoli, Daniele	1608–85	
.54	Dati, Carlo	1619–75	
.55	Gravina, Giovanni Vincenzo	1664–1718	
.56	Muratori, Ludovico Antonio	1672–1750	
.57	Giannone, Pietro	1676–1748	
.58	Zanotti, Francesco Maria	1692–1777	
.59	Minor essayists		
.6	**Period of renovation**	1748–1814	
.61	Bettinelli, Saverio	1718–1808	
.62	Denina, Carlo	1730–1813	
.63	Tiraboschi, Girolamo	1731–94	
.64	Lanzi, Luigi	1732–1810	
.65	Beccaria, Cesare	1735–93	
.66	Filangeri, Gaetano	1752–88	
.67	Cesari, Antonio	1760–1828	
.68	Perticari, Giulio	1779–1822	
.69	Minor essayists		

854.7	**Early 19th century 1814–59**	
.71	Costa, Paolo	1771–1836
.72	Giordani, Pietro	1774–1848
.73	Troya, Carlo	1785–1859
.74	Balbo, Cesare	1789–1853
.75	Capponi, Gino	1792–1878
.76	Mamiani della Rovere, Terenzio	1800–85
.77	Gioberti, Vincenzo	1801–53
.78	Tommaséo, Niccolò	1802–74
.79	Minor essayists	
.8	**Later 19th century 1859–1900**	
.81	Sanctis, Francesco de	1818–83
.82	Bonghi, Ruggiero	1827–95
.83	Conti, Augusto	1822–1905
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–1904
.89	Minor essayists	
.91	**Early 20th century 1901–**	

855 Italian oratory

856 Italian letters

857 Italian satire and humor

.1	**Early Italian Age of Dante**	–1375
.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377
.19	Minor writers	
.2	**Period of classic learning 1375–1492**	
.21	Burchiello, Domenico	1395–1448
.22	Pulci, Luigi	1432–84
.23	Vinciguerra, Antonio	
.29	Minor writers	
.3	**Age of Leo the Tenth 1492–1542**	
.31	Folengo, Teofilo (Merlin Cocai)	1491–1544
.32	Berni, Francesco	1496–1535
.39	Minor writers	
.4	**Later 16th century 1542–85**	
.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–53
.43	Caporali, Cesare	1531–1601
.49	Minor writers	

857.5	**Period of decline**	1585–1748	
.51	Tassoni, Alessandro		1565–1635
.52	Bracciolini, Francesco		1566–1645
.53	Lalli, Giovambattista		1572–1637
.54	Lippi, Lorenzo		1606–64
.55	Rosa, Salvatore		1615–73
.56	Menzini, Benedetto		1646–1704
.57	Sergardi, Ludovico		1660–1726
.58	Fortiguerri, Niccolò		1674–1735
.59	Minor writers		
.6	**Period of renovation**	1748–1814	
.61	Gozzi, Gasparo		1713–86
.62	Passeroni, Gian Carlo		1713–1803
.63	Casti, Giovambattista		1721–1803
.64	Parini, Giuseppe		1739–99
.65	Baretti, Giuseppe		1716–89
.66	Elci, Angelo Maria d'		1754–1824
.67	Pananti, Filippo		1766–1837
.69	Minor writers		
.7	**Early 19th century**	1814–59	
.71	Giusti, Giuseppe		1809–50
.8	**Later 19th century**	1859–1900	
.91	**Early 20th century**	1901–	

858 Italian miscellany

.8	**Later 19th century**	1859–1900	
.81	Gubernatis, Angelo de		1840–
.82	Amicis, Edmondo de		1846–1908

859 Wallachian literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters
.7 Satire and humor .8 Miscellany

.9 **Rumansh literature**

Subdivided like 859

860 Spanish literature

860.1 Philosofy .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

861 Spanish poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic .06 Descriptiv .07 Satiric and humorous .08 Collections .09 History of Spanish poetry

.1 Early Spanish –1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs: 711–1492 Arabic period or Age of reconquest

Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followd by an erudite tendency toward classic tradition neglecting national themes (861.13 and .14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 Primitiv monuments

.12 **Poema de mio Cid**

.13 Berceo, Gonzalo de 1196–1266

.14 Segura de Astorga, Juan Lorenzo 1250

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno)

.16 Sem Tob, Rabbi 1350

.19 Minor poets

.2 Age of imitation 1369–1516

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

1 Provençal, specially influential at court
2 Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
3 Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21 Lopez de Ayala, Pedro 1332–1407

.22 Mena, Juan de 1411–56

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458

.24 Manrique, Jorge 1440–79

.25 Los Cancioneros } Collections of poetry
.26 Los Romances }

.27 **Romancero del Cid**

'Romances' popular poetry, peculiar to Spain, and generally anonymous period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

.29 Minor poets

861.3 **Golden age 1516–1700**

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera — 16th century; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–67; **Murillo** 1618–82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with deth

Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 2 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and

2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of ' bad taste ' appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

.31	Vega, Garcilaso de la	1503–36
.32	Castillejo, Cristóbal de	1494–1596
.33	Leon, Luis Ponce de	1528–91
	Leon is equally important in prose	
.34	Los Argensolas: Lupercio	1563–1613
	Bartolomé Leonardo	1564–1631
.35	Herrera, Fernando de	1534–97
.36	Mendoza, Diego Hurtado de	1503–75
.37	Góngora y Argote, Luis de	1561–1627
.38	Rioja, Francisco de	1600–59
.39	Minor poets	

.4 **18th century 1700–1800**

At deth of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, ' bad taste ' every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimd by Luzan (1702–54) in *La poetica*, etc. Thereafter a kind of revival. 3 schools formed:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)

2 Antique national, protesting against introduction of French taste. Huerta (861.43)

3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). ' Prosaism ' production of exaggerated opposition to Gongorism or ' bad taste ' also characterizes period. Influence of French encyclopedism also manifest. Development of science checkt by religious (Inquisition) and political despotism. Rich development of fables and apologs in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

.41	Moratin (the Elder), Nicolás Fernandez de	1737–80
.42	Cadalso, José de	1741–82
.43	Huerta, Vicente Antonio García de la	1734–87
.44	Samaniego, Félix María de	1745–1801
.45	Yriarte, Tomás de	1750–91
.46	Valdés, Juan Melendez	1754–1817
.47	Iglesias de la Casa, José	1748–91
.48	Cienfuegos, Nicasio Alvarez de	1764–1809
.49	Minor poets	

861.5 **19th century 1800–1900**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) queld. Isabella driven from throne by revolution 1868; 1870–73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimd; monarchy restored with Alfonso 12th in 1875

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism reintroduced and revolution followd. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awakening with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53)

.51 Quintana, Manuel José 1772–1857
.52 Espronceda, José de 1810–42
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–84
.55 Gil y Zárate, Antonio 1792–1861
.56 Hartzembusch, Juan Eugenio 1806–80
.59 Minor poets

.6 **Early 20th century 1901–**

862 Spanish drama

.2 **Age of imitation 1369–1516**

Evidences of existence of 'mysteries' but no remains

.21 Enzina, Juan del (?)1468–1534
.22 Vicente, Gil (?)1450–1536

.3 **Golden age 1516–1700**

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the *Index*. Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862 35); thereafter decadence

.31 **Vega Carpio, Lope Felix de** 1562–1635
.32 Castro y Belvis, Guillen de 1567–1621
.33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639
.35 **Calderon de la Barca, Pedro** 1600–81
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–69
.39 Minor dramatists

.4 **18th century 1700–1800**

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of write s, Comella (862.41) — Period of unrest; old ideas can not be reestablisht, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

.41 Comella, Luciano Francisco 1716–79
.42 Moratin, Leandro Fernandez de 1760–1828
.43 Cruz, Ramon de la (Light comedies) 1731–95
.49 Minor dramatists

.5 **19th century 1800–1900**

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56

.51 Martinez de la Rosa, Francisco 1789–1862
.52 Rodriguez Rubí, Tomás 1817–90
.53 Bretón de los Herreros, Manuel 1796–1873
.59 Minor dramatists

.6 **Early 20th century 1901–**

863 Spanish fiction

.2 **Age of imitation 1369–1516**

Immense vogue of books of chivalry despite legislation till publication of *Don Quijote;* thereafter only one written. [First part of Quijote printed 1605]

.21 Books of chivalry

.22 **Amadis de Gaula**

.23 *Celestina*

.3 **Golden age 1516–1700**

Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e. g. Mendoza's *Lazarillo de Tormes.* For Mendoza, see 861.36

.31 Montemayor, Jorge de 1520–61

.32 **Cervantes Saavedra, Miguel de** 1547–1616

.39 Minor novelists

.4 **18th century 1700–1800**

.5 **19th century 1800–1900**

For Bretón de los Herreros, see 862.53; and Rodriguez Rubí, 862.52

.51 Larra, Mariano José de [Figaro] 1809–37

.52 Mesonero y Romanos, Ramón de 1803–82

.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877

.59 Minor writers

.6 **Early 20th century 1901–**

864 Spanish essays

865 Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restraind. Sacred eloquence less employd by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

.1 **Early Spanish –1369**

.2 **Age of imitation 1369–1516**

.3 **Golden age 1516–1700**

For Luis de Leon, see 861.33; and Luis de Granada, 868.32

.4 **18th century 1700–1800**

For Jovellanos, see 868.42; and Valdés, 861.46

.5 **19th century 1800–1900**

.51 Olozaga, Salustiano de 1803–73

.52 Castelar, Emilio 1832–99

.6 **Early 20th century 1901–**

866 Spanish letters

.3 **Golden age 1516–1700**

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

.31 Avila, Juan de 1502–69

.32 Perez Antonio 1540–1611

.39 Minor writers

867 Spanish satire

.1 **Early Spanish –1369**

Ruiz, Juan (Arcipreste de Hita) 1350

.2 **Age of imitation 1369–1516**

Coplas de Mingo Revulgo

.3 **Golden age 1516–1700**

Quevedo Villegas, Francisco Gomez de 1580–1645

.4 **18th century 1700–1800**

For Cadalso, see 861.42; and Moratin the younger, 862.42

.41 Jorge Pitillas (a pseudonym)

.42 Isla, José Francisco de (el Padre) 1703–81

868 Spanish miscellany

.1 **Early Spanish –1369**

.11 Alfonso 10, el Sábio 1221–84

.12 Sancho el Bravo (4th of Castile) 1258–95

.13 Manuel, Juan 1282–1347

.14 Alfonso 11 1310–50

.19 Minor writers

.2 **Age of imitation 1369–1516**

General and special histories, books of travel, works cald forth by Boccaccio's *Corvaccio*, etc.

.3 **Golden age 1516–1700**

Didactic prose. Considerable development, tho less than poetry, owing in great mesure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representativs of Mystic school

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3

.31 Mariana, Juan de, founder of Spanish history 1536–1623

.32 Granada, Luis de 1504–88

.33 Teresa de Jesús, Santa 1513–82

.34 Cruz, San Juan de la 1542–91

.35 Rivadeneyra, Pedro de 1527–1611

.36 Saavedra Fajardo, Diego de 1584–1648

.39 Minor writers

.4 **18th century 1700–1800**

Under Carlos 3d (1759–88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764

.42 Jovellanos, Gaspar Melchor de 1744–1811

.49 Minor writers

.5 **19th century 1800–1900**

For Hartzembusch, J E, see 861.56

.51 Gayangos, Pascual de 1809–97

.52 Rios, José Amador de los 1818–78

.53 Milá y Fontanals, Manuel 1818–84

.59 Minor writers

.6 **Early 20th century 1901–**

869 Portuguese literature

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

870 Latin literature

.1 Philosofy .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Latin literature

871 Latin poetry in general

See Dramatic, Epic and Lyric below

.1 **Lucretius Carus, Titus**
.2 **Ovid (Publius Ovidius Naso)**
.3 **Hyginus, Caius Julius**
.4 **Faliscus, Gratius**
.5 **Manilius, Marcus**
.6 **Phaedrus**
.7 **Lucilius Junior** *Ætna*
.8

872 Latin drama

.1 **Andronicus, Livius**
.2 **Naevius, Cnaeus**
.3 **Plautus, Titus Maccius**
.4 **Ennius**
.5 **Terence (Publius Terentius Afer)**
.6 **Seneca, Lucius Annaeus** See also 878 5
.7

873 Latin epic poetry

.1 **Virgil (Publius Virgilius Maro)**
.2 **Lucanus, Marcus Annaeus**
.3 **Flaccus, Caius Valerius**
.4 **Silius Italicus, Caius**
.5 **Statius, Publius Papinius**
.6

874 Latin lyric poetry

.1 **Catullus, Tibullus and Propertius**
.2 Catullus, Valerius
.3 Tibullus, Albius
.4 Propertius, Sextus Aurelius
.5 **Horace (Quintus Horatius Flaccus)** See also 877.3
.6 **Calpurnius Siculus**
.7

875 Latin oratory

.1 **Cicero, Marcus Tullius: complete works**
For Cicero's letters see 876.1

.2 Orations

.3 Rhetorical works

.4 Philosofic works See also 186.3

.5 **Messala Corvinus, Marcus Valerius**

.6 **Quintilian (Marcus Fabius Quintilianus)**

.7

876 Latin letters

.1 **Cicero, Marcus Tullius** For his other works see 875.1–875.4

.2 **Pliny (Caius Plinius Caecilius Secundus)**

.3 **Fronto, Marcus Cornelius**

.4

877 Latin satire and humor

.1 **Lucilius, Caius**

.2 **Cato, Valerius**

.3 **Horace** See 874.5

.4 **Persius Flaccus, Aulus**

.5 **Petronius Arbiter, Caius**

.6 **Martial (Marcus Valerius Martialis)**

.7 **Juvenal (Decimus Junius Juvenalis)**

878 Latin miscellany

.1 **Caesar, Caius Julius**

.2 **Sallust (Caius Sallustius Crispus)**

.3 **Nepos, Cornelius**

.4 **Livy (Titus Livius Patavinus)**

.5 **Seneca, Lucius Annaeus** See also 872.6 and 188.6

.6 **Tacitus, Caius Cornelius**

.7 **Suetonius Tranquillus, Caius**

.8 **Curtius Rufus, Quintus**

.9 **Minor writers**

879 Medieval and modern Latin

Subdivided like 820. .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

880 Greek literature

Classic literature

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Greek literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Greek literature

881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

.1 Theognis
.2 Aratus
.3 Lycophron
.4 Babrius

882 Greek dramatic poetry

.1 Æschylus
.2 Sophocles
.3 Euripides
.4 Aristophanes
.5 Epicharmus
.6 Menander

883 Greek epic poetry

.1 Homer
.2 Hesiod
.3 Apollonius Rhodius
.4 Oppian
.5 *Orphic poems*

884 Greek lyric poetry

.1 Tyrtaeus
.2 Sappho
.3 Anacreon
.4 Simonides of Ceos
.5 Pindar
.6 Theocritus
.7 Bion
.8 Callimachus
.9 Minor Greek lyric poets

885 Greek oratory

.1 Andocides
.2 Lysias
.3 Isaeus
.4 Isocrates
.5 Æschines
.6 Demosthenes
.7 Hyperides
.8 Lycurgus
.9 Minor Greek orators

886 Greek letters

.1 Themistocles
.2 Alciphron
.3 Phalaris

887 Greek satire and humor

For comedies of Aristophanes see 882.4

.1 Archilochus
.2 Simonides of Samos
.3 Hipponax

888 Greek miscellany

.1 Herodotus
.2 Thucydides
.3 Xenophon
.4 Plato See also 184.1 Platonic philosofy
.5 Aristotle See also 185.1 Aristotelian philosofy

Or if preferd, the works of Plato and Aristotle may be put in 184.1 and 185.1

.6 Æsop
.7 Lucian
.8 Plutarch See also 186.2
.9 Minor writers

889 Medieval and modern Greek

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

890 Literature of minor languages

Subdivided like 490, Philology of minor languages. If wisht 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

History

900 History in general

901–909 all have *History in general* as their subject, but it is treated in these various *forms*. A periodical on English history goes with 942, not 905, which is only for periodicals on history in general. Naught (0) in any class number in any part of the classification shows the subject to be general, not specific

901 Philosofy, theories, etc. History of civilization

902 Compends, chronologies, charts outlines

For chronology as a science, see 529

903 Dictionaries, cyclopedias, etc.

904 Essays, lectures, addresses

905 Periodicals, historical magazines

906 Societies, transactions, etc.

907 Education, methods of teaching, writing, etc.

See also 371.3

908 Polygrafy, collected works, extracts, etc.

909 Universal and general modern histories

For general Ancient histories, see 930

.1 A. D. 476—1199	.5 1500—1599
.2 1200—1299	.6 1600—1699
.3 1300—1399	.7 1700—1799
.4 1400—1499	.8 1800—1899

910 Geografy and travels

Including topografy, maps, antiquities, descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes

For directories, guidebooks, gazetteers, etc. of special countries or geografic sections see under those sections, 914–919

.1

.2 Traveler's manuals, guidebooks

.3 Dictionaries, gazetteers

.4 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures

.5 Periodicals

.6 Societies

.7 Study and teaching of geografy: school map drawing

For primary teaching of geografy see 372.89

.8 Collections of travels, etc.

.9 History of geografy, travels, explorations, etc.

911 Historic Growth and changes in political divisions, etc. Subdivided like 930–999

912 Maps, atlases, plans of cities, etc.
Subdivided like 930–999

913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 390 Special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African

914 Europe
915 Asia
916 Africa
917 North America
918 South America
919 Oceanica and Polar regions

914–919 is subdivided like 940–999. Whenever these main geografic hedings occur they may be subdivided exactly like History. The full list of subheds is printed only under 940–999. In assigning numbers to travels, use the history tables, *insert* 1 *after the initial* 9, and move the decimal point; e. g. Guide to N.Y. city is 917.471, for N.Y. city in history tables is 974.71

920 Biografy

Including autobiografy, diaries, personal narrativs, eulogies, biografic dictionaries, etc. All biografy is here groupt together under the main classes, and subdivided in the same way with the variations indicated below for Philosofy, Theology, and Sociology, i. e. the biografy of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.
Another plan is to scatter biografy with the other books, leaving 920–928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 insted of 925.8, and goes with botanic books
Lives which will not go under any hed without 'forcing' are best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceanica

920 Individual and collectiv by subjects

.1 Bibliografers
.2 Librarians
.3 Encyclopedists
.4 Publishers Booksellers
.5 Journalists
.6 Academicians
.7 Women Collected, and individual lives not clearly going with any subject
.8 Eccentrics, cranks, fools, insane, etc. See also 132.1 Insanity
.9 Other special classes not included in 921–928, e. g. phrenologists, somnambulists, mindreaders, magicians, etc.

921 Of philosofy

.1 American
.2 English Scotch
.3 German
.4 French
.5 Italian
.6 Spanish
.7 Slavic
.8 Scandinavian and other modern
.9 Ancient Oriental Patristic Scholastic See 180–189

922 Of religion: clergy, missionaries, preachers

922.1–922.88 may be subdivided for nationality like 930–999

.1 Primitiv apostles, fathers, etc. oriental, Greek, Russian
See 225.92 New Testament biografy
.2 Roman catholic: popes, cardinals, etc.
.21 Lives of popes
.3 Anglican and protestant episcopal
.4 Continental protestant: Lutheran, Huguenot
.5 Presbyterian and congregational
.6 Baptist Immersionist
.7 Methodist
.8 Unitarian, universalist and other
.81 Unitarian Universalist
.84 New church or Swedenborgian
.85 Christian science
86 Quaker
.87 Mennonite
.88 Shaker
.89 Other minor Christian sects

922.9 Ethnic and other
.91 Atheists
.92
.93
.94 Brahman Buddhist
.95 Parsee
.96 Jews
.97 Mohammedan
.98 Mormon
.99 Minor nonchristian religions

923 Of sociology

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

.1 Chief rulers: kings, queens, emperors, presidents
.2 Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc. For slaves, see 326.92
.3 Political economy: bankers, capitalists, financiers
.4 Law: judiciary dep't, lawyers, judges
.41 Criminals
.5 Administration: army and navy, civil servis
.6 Associations and institutions Philanthropists, etc.
.7 Education: teachers, school offisers, educators
.8 Commerce and communication: railway officials, merchants, etc.
.9 Manners and customs: society, travelers, discovery

924 Of philology
925 " science
926 " useful arts
927 " fine arts
928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810–899, class historians with miscellaneous authors as 8; i. e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet

929 Genealogy and heraldry

.1 **Genealogies**

.2 Families

.3 Registers of births, baptisms, marriages, deths

.4 Names of persons and places

.5 Epitafs.

.6 **Heraldry**

.7 **Peerage, precedence, titles of honor Royal houses**

.71 **Orders of Knighthood**

.711 St John of Jerusalem

.712 Templars

.713 Teutonic knights

.714 Garter

.715 Golden Fleece

.716 Holy Ghost

.717

.718

.719

.72 **Great Britain and Ireland**

.721 Peerage Royal houses

.722 Baronetage

.723 Knightage

.724 Dignities, precedence

.725 Landed gentry

.726 Visitations Alfabeted by counties

.73 **Germany**

.74 **France**

.75 **Italy**

.76 **Spain**

.77 **Russia**

.78 **Scandinavia**

Divided like 929.72

.79 **Minor countries**

Divided like 949; minor countries outside Europe are put together in 929.799

.8 **Coats of arms, crests**

.9 **Flags**

930 **Ancient history** 476 A.D.

931 China

932 Egypt

933 Judea

934 India

935 Medo-Persia

.1 Chaldea
.2 Assyria Nineveh
.3 Media
.4 Babylonia
.5 Persia
.6 Parthia
.7 New Persian or Sassanian
.8 Mesopotamia
.9 Susiana

936 Kelts

937 Rome Italy

Period divisions

.01	Kings	753–509 B. C.
.02	Republic	509– 31 "
.03	Conquest of Italy	509–264 "
.04	Punic wars	264–146 "
.05	Civil strife	146– 31 "
.06	Empire	31 B. C.–476 A. D.
.07	Constitutional	31 " –284 "
	Augustus—Illyrian emperors	
.08	Absolute	284–476 "
.09	Division of empire	395–476 "
	Barbarian conquests and fall of western empire	

Geografic divisions

.1 Liguria
.2 Gallia Cisalpina
.3 Venetia Istria
.4 Umbria Picenum Sabini, etc.
.5 Etruria
.6 Latium, Rome
.7 Southern Italy: Campania, Samnium, Apulia, etc.
.8 Sicily, Syracuse
.9 Sardinia Corsica

938 Greece

Period divisions

.01	Mythical age	–776 B. C.
.02	Growth of states	775–500 "
.03	Persian wars Union of Greece	500–479 "
.04	Athenian supremacy	479–431 "
.05	Peloponnesian war	431–404 "
.06	Spartan and Theban supremacy	404–362 "
.07	Macedonian supremacy	362–323 "
.08	Roman conquest of Greece	323–146 "
.09	Greek subjection	146 B. C.–323 A. D.
	Byzantine empire is clast 949.5	

Geografic divisions of Greece

938.1 Macedonia
.2 Thessaly Epirus
.3 Acarnania Ætolia Locris Doris Phocis Ithaca
.4 Boeotia Megaris Euboea
.5 Attica
6 Peloponnesus
.7 Corinthia Achaia
.8 Elis Arcadia Argolis
.9 Messenia Laconia Sparta

939 Minor countries

.1 **Grecian archipelago**
.11 Northern ilands: Thasos, Lemnos, etc. .12 Lesbos .13 Chios, etc. .14 Samos, etc. .15 Cyclades .16 Rhodes, etc. .17 Carpathos .18 Crete

.2 **Western Asia Minor**
.21 Mysia, Troas .22 Lydia .23 Ionia .24 Caria .25 Bithynia .26 Phrygia .27 Pisidia .28 Lycia .29 Pamphylia

.3 **Eastern Asia Minor**
.31 Paphlagonia .32 Galatia .33 Pontus .34 Cappadocia .35 Cilicia .36 Commagene .37 Cyprus

.4 **Syria**
.41 Upper Syria .42 Coele Syria .43 Palmyra .44 Phenicia, Tyre .45 Palestine: Hittites, Philistines, etc. .46 Edom, Moab, Bashan, etc. .47 Arabia .48 Arabia Petraea, Sinai

.5 **Northwestern Asia**
.51 Scythia .52 Sarmatia Asiatica .53 Colchis .54 Iberia .55 Armenia .56 Albania

.6 **South Central Asia**
.61 Sogdiana .62 Hyrcania .63 Margiana .64 Bactriana .65 Ariana

.7 **Minor African countries**
.71 Mauritania .72 Numidia .73 Africa Propria, Carthage .74 Syrtica Regio .75 Cyrenaica .76 Marmarica .77 Libya, Gaetulia .78 Ethiopia

.8 **Southeastern Europe**
.81 Sarmatia Europa .82 Dacia .83 Vindelicia .84 Rhaetia .85 Noricum .86 Pannonia .87 Illyria .88 Moesia .89 Thracia

Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

.1 **Medieval Europe** 476–1453

For Byzantine empire see 949.5

.11 **Rise of new nations** 476– 800

.14 **Age of feudalism** 800–1100

See also 321.3 Feudalism (Political science)

Charlemagne 768–814

Norman conquests

.17 **Age of chivalry** 1100–1453

To fall of Eastern empire (Constantinople) 1453

.18 **Crusades** 1096–1270

See also church history, 270.4–.5

.181 1st crusade 1096 (Peter the Hermit)

.182 2d " 1147 (St Bernard)

.183 3d " 1190 (Richard Coeur de Lion)

.184 4th " 1202 (Baldwin of Flanders)

.185 5th " 1212 (Children's crusade)

.186 6th " 1217 (Capture of Jerusalem)

.187 7th " 1228

.188 8th " 1248 (St Louis)

.189 9th " 1270 "

.2 **Modern Europe** 1453–

.21 **Renaissance period** 1453–1517

Discoveries and inventions

.22 **Age of the reformation** 1517–1789

.23

.24 30 years war 1618–48

.25

.26

.27 **Napoleonic period** 1789–1815

.28 **19th century** 1815–1914

.29

.3 **Great war** 1914–19

.31 Political history

.311 Causes

.312 Efforts to preserv peace

See also 940.32 Diplomatic history

.313

.314 Results: terms of peace

940.315 Relations of special classes

Subdivided like the classification, using 9 for refugees, divided like 940–999 by country of origin. For classes not thus provided for see 940.316

2 **Clergy Church**

Subdivide .3152–28 like 280, but use .315289 for sects in 289; e. g.

.31521 Greek catholic church
22 Roman " " Pope
2895 Christian scientists

Use .31529 like 290; e. g.

.315296 Jews
297 Mohammedans Holy war

.316 Other special classes

1 **Noncombatants**
2 **Pacifists**
3 **Enemy sympathizers**

.317

.318 Relations of special interests Aspects

Divided generally like the classification

.32 Diplomatic history

See also 940.31–.314 Political history

.33 Groups of countries: allies and neutrals

As a body; for individual countries see 940.34–.39

.332 Entente

.334 Teuton allies, Central powers

.335 Neutrals

.34–.39 Individual countries

Divided like 940–999

Under each country farther subdivision may be made with the following numbers, if its part in this war is clast here insted of with the rest of its history:

01 Political history Causes
02 Diplomatic "
03 Local (states, counties provinces, cities)
04 Military organization
Class operations in 940.4
05 Aspects: economic and other
06 Celebrations
07 Prisons, etc.
08 Personal narrativ
09 Illustrativ

.4 Military history

.405 Frightfulness, atrocities

As military expedient. For other relations see Atrocities in Relativ index. But, since the avowd policy of one group of belligerents was 'frightfulness', it pervades all literature of this war.

.41 Land operations

.42–.43 **Special campains and battles**

.44 Air warfare

.45 Naval history

.46 Celebrations, commemorations

Usually better clast with event commemorated. For American patriotic societies of this war ,see 369.186

.461 War meetings

.462

.463 Flag presentations

.464 Decorations: presentation

940.465 Monuments, memorials
General, of the war or a country's part in it; but class memorials of a special event with that event
4–9 **By country** Divided like 940–999
.467 Rolls of honor Lists of ded
.468
.47 Prisons, hospitals, charities
.471
.472 Prisons
Divided like 940–999 and including internment camps
.473 Exchange of prisoners
.474
.475 Medical department, surgeons, nurses
See also 616 and 617
4–9 **By country maintaining** Divided like 940–999
.476 Hospitals, hospital sketches
34–39 **By country in which located** Divided like 940–999
4–9 **By country maintaining** " " "
.477 Welfare work
1 **Red Cross**
2 **Salvation Army**
3 **Y M C A**
4 **Y W C A**
5 **Knights of Columbus**
6 **Young Men's Hebrew ass'n**
7 **Other: college units, etc.**
8 **By country conducting** Divided like 940–999
9 **By country in which conducted** Divided like 940–999
.478 Religious life, chaplains, etc.
.48 Personal narrativs, secret servis
When relating to some special battle or event, class with subject
.481 Entente allies
.482 Central powers
.483 Army life, Entente allies
.484 " Central powers
.485 Secret servis, spies
.486
.487 **German secret servis**
.488
.489
.49 Illustrativ material
Subdivided like 973.79
For pecial collections; but most material should be clast with its subject: poetry, drama, etc. with the literatures to which they belong
.5 **Later 20th century**
Including works on 20th century as a whole

941 Scotland

Period divisions

.01	Gaelic period	–1097
.02	English period Struggle for national freedom	1097–1314
.03	Independent kingdom	1314–1424
.04	The Jameses	1424–1557
.05	Reformation	1557–1603
.06	Union of crowns and parliaments	1603–1707
.07	Hanover	1707–1837
.08	Later Hanoverian	1837–
.09		

Geografic divisions

.1 Northern Scotland

.11 Shetland .12 Orkney .13 Caithness .14 Sutherland .15 Cromarty .16 Ross .17 Hebrides

.2 North central Scotland

.21 Inverness .22 Nairn .23 Elgin .24 Banff .25 Aberdeen .26 Kincardine

.3 South central Scotland

.31 Forfar .32 Perth .33 Fife .34 Kinross .35 Clackmannan .36 Sterling .37 Dumbarton .38 Argyll .39 Bute

.4 Southern Scotland

.41 Renfrew .42 Ayr .43 Lanark .44 Linlithgow, Edinburgh .45 Haddington, Berwick .46 Peebles, Selkirk .47 Roxburgh .48 Dumfries .49 Kirkcudbright, Wigton

941.5 Ireland

Period divisions

.51	Early history	–1086
.52	Separate kingdoms Conquest by Henry 2	1086–1172
.53	Plantagenet	1172–1399
.54	Lancaster and York	1399–1485
.55	Tudors	1485–1603
.56	Stuarts Closing with treaty of Limerick	1603–91
.57	Hanover Closing with the union	1691–1801
.58	19th century	1801–1900
.591	Early 20th century	

Geografic divisions of Ireland

941.6 **Ulster**

.61 Antrim .62 Londonderry .63 Donegal .64 Tyrone .65 Down .66 Armagh .67 Monaghan .68 Fermanagh .69 Cavan

.7 **Connaught**

.71 Leitrim .72 Sligo .73 Mayo .74 Galway .75 Roscommon

.8 **Leinster**

.81 Longford, West Meath .82 Meath, Louth .83 Dublin .84 Wicklow .85 Kildare .86 King's co. .87 Queen's co. .88 Carlow, Wexford .89 Kilkenny

.9 **Munster**

.91 Waterford .92 Tipperary .93 Clare .94 Limerick .95 Cork .96 Kerry

942 England

Including works on Great Britain

Period divisions

For specially minute work the 6th figure printed for each soveren may be used; e. g. Henry 7 is 942.051

.01 **Anglo-Saxon** B. C. 55-A. D. 1066

Prehistoric, Roman, British, Danish

.02 **Norman** 1066–1154

1 William 1 *1066–87* 2 William 2 *1087–1100* 3 Henry 1 *1100–35* 4 Stephen *1135–54*

.03 **Plantagenet** 1154–1399

1 Henry 2 *1154–89* 2 Richard 1 *1189–99* 3 John *1199–1216* 4 Henry 3 *1216–72* 5 Edward 1 *1272–1307* 6 Edward 2 *1307–27* 7 Edward 3 *1327–77* 8 Richard 2 *1377–99*

.04 **Lancaster and York** 1400–85

Wars of the roses 1455-85 (Lancaster, red; York, white)

1 Henry 4 *1399–1413* 2 Henry 5 *1413–22* 3 Henry 6 *1422–61* 4 Edward 4 *1461–83* 5 Edward 5 *1483* 6 Richard 3 *1483–85*

.05 **Tudor** 1485–1603

1 Henry 7 *1485–1509* 2 Henry 8 *1509–47* 3 Edward 6 *1547–53* 4 Mary *1553–58* See also 272.6 5 Elizabeth *1558–1603* See also 272.7

.06 **Stuart** 1603–1714

1 James 1 *1603–25* 2 Charles 1 *1625–49* 3 Commonwelth *1649–53* 4 Oliver Cromwell *1653–58* 5 Richard Cromwell *1658–59* 6 Charles 2 *1660–85* 7 James 2 *1685–88* 8 William 3 *1689–1702* 9 Anne *1702–14*

.07 **Hanover** 1714–1837

1 George 1 *1714–27* 2 George 2 *1727–60* 3 George 3 *1760–1820* 4 George 4 *1820–30* 5 William 4 *1830–37*

.08 **Later Hanoverian** 1837–

1 Victoria *1837–1901* 2 Edward 7 *1901–10* 3 George 5 *1910–*

Geografic divisions

942.1 **Middlesex London**

.2 **Southeastern**

.21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of Wight .29 Berks

.3 **Southwestern**

.31 Wilts .33 Dorset .34 Channel ilands .35 Devon .37 Cornwall .38 Somerset

.4 **West Midland**

.41 Gloucester .43 Monmouth .44 Hereford .45 Salop .46 Stafford .47 Worcester .48 Warwick

.5 **North and South Midland**

.51 Derby .52 Notts .53 Lincoln .54 Leicester, Rutland .55 Northampton .56 Huntington, Bedford .57 Oxford, Buckingham .58 Hertford .59 Cambridge

.6 **Eastern**

.61 Norfolk .64 Suffolk .67 Essex

.7 **Northwestern and Yorkshire**

.71 Cheshire .72 Lancashire .74 Yorkshire

.8 **Northern**

.81 Durham .82 Northumberland .85 Cumberland .88 Westmoreland .89 Isle of Man

.9 **Wales**

.91 Anglesey .92 Carnarvon, Merioneth .93 Denbigh, Flint .94 Montgomery .95 Cardigan .96 Radnor, Brecknock .97 Glamorgan .98 Carmarthen .99 Pembroke

943 Germany and Austria

Period divisions

.01 **Formativ period**

Wars with Rome Charlemagne *800–814* Louis 1 *814–840* Lothaire 1 *840–843*

.02 **Empire before the reformation**

1 **Carolingian** *843–911:* Louis 2 *843–876* Charles 2 *876–877* Charles 3 *877–887* Arnulf *887–899* Louis 3 *900–911*

2 House of **Franconia:** Conrad 1 *911–918* House of **Saxony,** *919–1024:* Henry 1 *919–936* Otto 1 *936–973* Otto 2 *973–983* Otto 3 *983–1002* Henry 2 *1002–24*

3 House of **Franconia** *1024–1125:* Conrad 2 *1024–39* Henry 3 *1039–56* Henry 4 *1056–1106* Henry 5 *1106–25* House of **Saxony:** Lothaire 2 *1125–37*

4 House of **Hohenstaufen** *1137–97:* Conrad 3 *1138–52* Frederick 1 *1152–90* Henry 6 *1190–97*

5 House of **Hohenstaufen** and **Interregnum** *1198–1272:* Philip *1198–1208* Otto 4 *1208–12* Frederick 2 *1212–50* Conrad 4 *1250–54* William of Holland *1254–56* Richard of Cornwall *1256–72*

6 Houses of **Hapsburg, Luxemburg,** etc. *1273–1378:* Rodolph 1 *1273–91* Adolphus *1291–98* Albert 1 *1298–1308* Henry 7 *1308–13* Louis 4 *1313–47* Charles 4 *1347–78*

7 **Interregnum** *1378–1437:* Wenceslaus *1378–1400* Rupert *1400–10* Sigismund *1410–37*

8 Albert 2 *1438–39* Frederick 3 *1440–93*

9 Maximilian 1 *1493–1519*

.03 **Reformation to 1618** 1517–1618

1 Charles 5 *1519–1556* 2 Ferdinand 1 *1556–64* 3 Maximilian 2 *1564–76* 4 Rodolph 2 *1576–1612* 5 Matthias *1612–19*

.04 **Disintegration** 1618–1705

1 Thirty years' war *1618–48* 2 Ferdinand 2 *1619–37* 3 Ferdinand 3 *1637–57* 4 Leopold 1 *1658–1705*

.05 **Rise of Prussia** 1705–89

1 Joseph 1 *1705–11* 2 Charles 6 *1711–40* 3 *1740–42* 4 Charles 7 *1742–45* 5 Francis 1 *1745–65* 6 *Seven years war 1756–63* 7 Joseph 2 *1765–90*

.06 **Napoleonic wars** 1789–1815

Leopold 2 *1790–92* Francis 2 *1792–1806* Confederation of the Rhine *1806–15*

.07 **Reorganization** 1815–66

.08 **New German empire** 1866–1918

1 North German confederation *1866–71* 2 Franco-German war *1870–71* 3 William 1 *1871–88* 4 Frederick *1888* William 2 *1888–1918 ;* Great war *1914–19* and downfall of empire

.085 **German republic** 1918–

Geografic divisions of Germany and Austria

943.1 **Prussia and Northern Germany**

By peace of Versailles, 1919, most of Posen (.13) and parts of East Prussia (.11) of West Prussia (.12) and Silesia (.14) were restored to Poland. Danzig (.12) as port of Poland made free city with 729 sq. mi. of territory

.11 East Prussia .12 West Prussia, Danzig .13 Posen .14 Silesia .15 Brandenburg .16 Pomerania .17 Mecklenburg and Lubeck .18 Prussian Saxony .19 Anhalt

.2 **Central Germany**

.21 Saxony .22 **Thuringia** .23 Saxe-Weimar .24 Saxe-Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen .27 Schwartzburg .28 Reuss

.3 **Bavaria**

.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Suabia

.4 **Southern Germany**

In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.44) and Lorraine (.45) taken from France in 1871 were restored. See 944.38

.41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurtemburg .48 *Black Forest* and *Danube* .49 Hohenzollern

.5 **Northwest Germany**

By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark

.51 Schleswig-Holstein and Hamburg .52 Oldenburg and Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

.6 Austria

By peace of Versailles, 1919, Italia Irredenta, i. e. Tyrol (.64) Istria (.68) and part of Dalmatia (.69) were ceded to Italy; the rest of Dalmatia and all Carniola (probably) to Jugoslavia

.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol .65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dalmatia

.7 Czechoslovakia

.71 Bohemia .72 Moravia .73 Silesia .74 Galicia .75 Bukowina

.8 Poland Including history before the division

Extinct as state from 3d partition in 1795 til 1919, when its soverenty was restored by the peace of Versailles. See also 943.11–.14, 943.73–.74 and 947.4–.5

9 Hungary, etc.

By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmd; Fiume (.94) was made independent, subject to plebiscit in 4 years; Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzogovina (.96) were recognized as part of Jugoslavia (see 949.71)

.91 Hungary .92 Transylvania .93 Slavonia .94 Croatia. Fiume .95 Bosnia .96 Herzegovina

944 France

Period divisions

.01 **Early history** -987

Ancient Kelts -59 B. C. Roman dominion 59 B. C.-418 A. D. Merovingian dynasty 428-752 Carolingian 752-987

.02 **Capet and Valois** 987-1589

House of **Capet**

1 Hugh Capet *987-996* Robert 2 *996-1031* Henry 1 *1031-60*

2 Philip 1 *1060-1108* Louis 6 *1108-37* Louis 7 *1137-80*

3 Philip 2 *1180-1223* Louis 8 *1223-26* Louis 9 *1226-70*

4 Philip 3 *1270-85* Philip 4 *1285-1314* Louis 10 *1314-16* John 1 *1316* Philip 5 *1316-22* Charles 4 *1322-28*

House of **Valois**

5 Philip 6 *1328-50* John 2 *1350-64* Charles 5 *1364-80*

6 Charles 6 *1380-1422* Charles 7 *1422-61*

7 Louis 11 *1461-83* Charles 8 *1483-98* Louis 12 *1498-1515*

House of **Angoulême**

8 Francis 1 *1515-47* Henry 2 *1547-59*

9 Francis 2 *1559-60* Charles 9 *1560-74* Henry 3 *1574-89*

.03 **Bourbon** 1589-1789

1 Henry 4 *1589-1610* 2 Louis 13 *1610-43* 3 Louis 14 *1643-1715* 4 Louis 15 *1715-74* 5 Louis 16 *1774-92*

.04 **Revolution** 1789-1804

1 National assembly *1789-92* 2 First republic *1792-99:* 3 Convention *1792-95* 4 Reign of terror, May *1793*-July *1794* 5 Directory *1795-99* 6 **First consulate,** Napoleon *1799-1804*

.05 **First empire** 1804-1815

Napoleon 1 *1804-14* Louis 18 *1814-15* The hundred days, March 20-June 29, 1815

.06 **Restoration** 1815-1848

1 Louis 18 *1815-24* 2 Charles 10 *1824-30* 3 Louis Philippe *1830-48*

.07 **Second republic and second empire** 1848-1870

Revolution of *1848* Second republic, Louis Napoleon, pres. *1848-52* Napoleon 3 *1852-70*

.08 **Third republic** 1870-

Franco-German war, Government of national defense *1870-71* National assembly *1871* Presidency of Thiers *1871-73* McMahon *1873-79* Grévy *1879-87* Sadi-Carnot *1887-94* Casimir Périer *1894-95* Faure *1895-99* Loubet *1899-1906* Fallières *1906-13* Poincaré *1913-*

Geografic divisions of France

.1 **Brittany Maine Anjou**

.11 Finistère .12 Côtes du Nord .13 Morbihan .14 Loire Inférieure .15 Ille et Vilaine .16 **Maine:** Mayenne .17 Sarthe .18 **Anjou:** Maine et Loire

.2 **Normandy Picardy**

.21 Manche .22 Calvados .23 Orne .24 Eure .25 Seine Inférieure .26 **Picardy:** Somme .27 **Artois:** Pas de Calais .28 Nord

944.3 **Champagne Ile de France Lorraine**

.31 Ardennes .32 Marne .33 Aube Haute Marne .34 **Ile de France:** Aisne .35 Oise .36 Seine et Oise, Paris .37 Seine et Marne .38 **Lorraine** (Alsace-Lorraine): .381 Meuse .382 Meurthe et Moselle .383 Alsace (But use .38 for Alsace and Lorraine together) See also 943.44–.45 .39 Vosges

.4 **Burgundy Franche Comté Savoy**

.41 Yonne .42 Côte d'Or .43 Saône et Loire .44 Ain .45 **Franche Comté:** Haute Saône, Belfort .46 Doubs .47 Jura .48 **Savoy:** Savoie .49 Haute Savoie

.5 **Orléans, etc. Auvergne**

.51 Eure et Loir .52 Loiret .53 Loir et Cher .54 **Touraine:** Indre et Loir .55 **Berry:** Indre, Cher .56 **Nivernais:** Nièvre .57 **Bourbonnais:** Allier .58 **Lyonnais:** Loire, Rhône .59 **Auvergne:** Puy de Dôme, Cantal

.6 **Poitou Limousin**

.61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente Inférieure .65 Charente .66 **Limousin:** Haute Vienne .67 Corrèze .68 **Marche:** Creuse

.7 **Guienne Gascony**

.71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn et Garonne .76 Lot et Garonne .77 **Gascony:** Landes, Gers .78 Hautes Pyrénées .79 **Béarn:** Basses Pyrénées

.8 **Languedoc**

.81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault .85 Tarn .86 Haute Garonne .87 Aude .88 **Foix:** Ariège .89 Pyrénées Orientales

.9 **Provence Dauphiny**

.91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes Maritimes, Monaco .95 Basses Alpes .96 **Dauphiny** .97 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions

.01	Gothic and Lombard kingdoms	476–774
.02	Frankish emperors	774–961
.03	German emperors	962–1122
	Hildebrand and papal supremacy	
.04	Age of the communes	1100–1300
	Free cities Strifes of Guelphs and Ghibelines	
.05	Age of the despots	1300–1492
.06	Age of invasions	1492–1527
.07	Spanish-Austrian ascendancy	1527–1796
.08	Struggle for independence	1796–1870
.09	United Italy	1870–
	Victor Emanuel, Cavour, Garibaldi	

Geografic divisions of Italy

945.1 Piedmont and Liguria
.2 Lombardy
.3 Venetia
.4 Emilia
.5 Tuscany
.6 Marches, Umbria and Latium
.7 Naples
.71 Abruzzo and Molise .72 Campania .73 Napoli
.74 Salerno .75 Apulia .76 Lecce, Terra di Otranto
.77 Basilicata, Potenza .78 Calabria .79 Reggio di Calabria
.8 Sicily Malta
.9 Sardinia and Corsica

946 Spain

Period divisions

.01 **Early history Roman dominion Gothic kingdom** — 711
.02 **Moorish kingdom** 711–1479
.03 **Ferdinand 5 and Isabella** 1479–1516
Discovery
Expulsion of the Moors
.04 **Charles 1 and Philip 2** 1516–98
Inquisition War with the Netherlands Armada Charles 1 (5th of Germany) *1516–56* Philip 2 *1556–98*
.05 **Philip 3 — Charles 4** 1598–1808
Degeneration 1 Philip 3 *1598–1621* 2 Philip 4 *1621–65* 3 Charles 2 *1665–1700* 4 House of **Bourbon:** 5 Philip 5 *1700–46* 6 Ferdinand 6 *1746–59* 7 Charles 3 *1759–88* 8 Charles 4 *1788–1808*
.06 **Peninsular war** 1808–14
Joseph Bonaparte
.07 **Bourbon restoration** 1814–68
Attempts at reform
Ferdinand 7 *1814–33* Isabella 2 *1833–68*
.08 **Revolution and 2d restoration** 1868—
Revolution of *1868–70* Amadeus *1870–73* Republic *1873–75* Alfonso 12 *1875–85* Alfonso 13 *1886–*

Geografic divisions of Spain

.1 Galicia Asturias
.2 Leon Estramadura
.3 Old Castile
.4 New Castile
.5 Aragon
.6 Basque provinces
.7 Catalonia Balearic iles Valencia Murcia
.8 Andalusia Canary iles

.9 Portugal
.98 Madeira .99 Azores

947 Russia

Period divisions

.01	Primitiv Russia	—862
.02	Varangian kingdom	862–1237
	Conversion to Christianity	
.03	Mongolian invasion	1237–1462
	Civil wars	
.04	Ivan 3–Ivan 5	1462–1689
	Origin of serfdom	
.05	Peter the Great	1689–1725
	Wars with Sweden and Turkey	
.06	Catharine 1–Catharine 2	1725–96
	Partition of Poland	
.07	Paul 1–Nicholas 1	1796–1855
	War with Napoleon	
	Insurrection of Poland	
	Crimean war See also 942.08, 944.07, 945.08, 949.6	
.08	Alexander 2	1855–81
	Emancipation of the serfs	
	Turko-Russian war	
	Alexander 3	1881–94
	Nicholas 2	1894–1917
	Revolution 1917	

Geografic divisions of Russia

.1 **Finland** **Lapland**

.2 **Northern Great Russia**
Archangel, Vologda, Olonetz, Novgorod

.3 **Southern Great Russia**

.4 **Baltic provinces**
Courland, Livonia, Esthonia, Petrograd (Petersburg)

.5 **Russian Poland**
Partly restored to Poland by peace of Versailles 1919. Lithuania

.6 **West Russia**

.7 **Little Russia** **South Russia**
Ukraine

.8 **East Russia**

.9 **Caucasia**

948 Norway Sweden Denmark

Period divisions

.01	**Legendary period**	–800
.02	**Consolidation Migration**	801–1397
	Introduction of Christianity	
	Discovery of Iceland, Greenland, and America	
	Conquest of Britain and Normandy	
.03	**Union of the 3 kingdoms**	1397–1523
	Civilization Foren relations	
04	**The reformation**	1523–1648
	Edict of toleration 1527	
	30 years war Gustavus Adolphus	
.05	**Decline**	1648–1792
	Wars vs Denmark, Poland, Russia	
	Political changes	
.06	**Napoleonic wars**	1792–1818
	Union of Norway and Sweden 1814	
.07	**Charles 14 (Bernadotte)**	1818-
	Peace Internal reform	
.08		

Geografic divisions

.1 **Norway**
.2 **Christiania**
.3 **Christiansand Bergen**
.4 **Hamar Throndhjem Tromso**
.5 **Sweden**
.6 **Gothland**
.7 **Svealand**
.8 **Norrland**
.9 **Denmark**

949 Minor countries of Europe

.1 **Iceland Faroe ilands**

01 Commonwelth *–1264* 02 Medievalism *1264–1551* 03 Absolute rule, Decay *1551–1848* 04 Modern Iceland *1848–*

.2 **Netherlands**

01 Early history *–1477* 02 Austrian dominion *1477–1566* Wars for independence *1566–1648* 04 Age of prosperity *1648–1795* 05 Revolutionary *1795–1830* 06 19th century *1830–1900* 07 20th century *1901–*

.3 **Belgium**

.4 **Switzerland**

01 Early history *–1300* 02 Struggle for independence *1300–1499* 03 Reformation *1499–1648* 04 Period of tranquillity *1648–1789* 05 Period of revolution *1789–1815* 06 19th century *1815–1900* 07 20th century *1901–*

949.5 **Byzantine empire and modern Greece**

01 Greek revival 323–716
Constantine the great–Theodosius 3

02 Byzantine prosperity 716–1057
Leo 3–Michael 6

03 Byzantine decline 1057–1204
Isaac 1–Latin conquest of Constantinople

04 Greek survival 1204–1453
Constantinople taken by the Turks, 1453

05 Turkish power 1453–1821

06 Greek independence 1821–

.6 **Turkey in Europe Balkan states** .61 Constantinople
Also works covering Turkey in Asia

.7 **Jugoslavia: Serbia, Montenegro Bulgaria**

.8 **Rumania: Wallachia, Moldavia, Dobruja**

.9 **Ilands of Greek archipelago**
Divided like 939.1

950 Asia

951 China
.1 N. E. China, Peking .2 S. E. China, Canton, Hong Kong, Taiwan (Formosa) .3 S. W. China .4 N. W. China .5 Tibet .6 East Turkestan .7 Mongolia .8 Manchuria .9 **Chosen** (Korea)

952 Japan

953 Arabia
.1 Sinai .2 Hejaz, Mecca .3 Yemen .4 Hadramaut, Mahrah .5 Oman .6 Hasa .7 Dahna .8 Nejd .9 Syrian desert

954 India
.1 Bengal, Orissa, Assam, Bhotan .2 Northwest provinces, Oudh, Nepal .3 Central provinces .4 Rajputana .5 Punjab, Delhi, Lahore .6 Kashmir .7 Bombay, Sind, Baroda .8 Madras, Mysore, Travancore, Ceylon .9 Hyderabad

955 Persia

956 Turkey in Asia See also 949.6
.1 Khodavendigar .2 Aidin, Smyrna .3 Kastamuni, Angora .4 Konieh, Adana, Cyprus .5 Trebizond, Sivas .6 Armenia and Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis; Van .7 Mesopotamia: Mosûl; Bagdad; Basra .8 Aleppo .9 Syria, Damascus, Phenicia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan
.1 N. E. Afghanistan, Kabul .2 South Afghanistan, Kandahar .3 N. W. Afghanistan, Herat .4 **Turkistan** .5 Kiva .6 Bokhara .7 Ferghana or Khokan .8 **Baluchistan**

959 Farther India

.1 British Burma .2 Burma .3 Siam .4 Laos .5 Lower Siam, Malay peninsula .6 Cambodia .7 French Cochin China .8 Anam .9 Tonkin

960 Africa

961 North Africa

.1 Tunis .2 Tripoli .3 Fezzan

962 Egypt

.1 Lower Egypt, Alexandria, Cairo .2 Middle Egypt .3 Upper Egypt, Thebes .4 Nubia .5 Dongola .6 Egyptian Sudan, Kartum .7 Darfur .8 Kordofan .9 Sennaar

963 Abyssinia

964 Morocco

965 Algeria

966 North Central Africa

.1 Sahara .2 Sudan .3 Senegambia, Senegal .4 Sierra Leone .5 Upper Guinea .6 Liberia .7 Ashanti .8 Dahomey, Togo .9 Gold Coast

967 South Central Africa

.1 Lower Guinea, Kamerun .2 Loango, French Kongo .3 Portuguese West Africa, Angola, Benguela .4 Interior .5 Free State, Kongo basin .6 Central lake region: British East Africa, Uganda .7 Somali .8 Zanzibar .9 Mozambique, Portuguese East Africa

968 South Africa

.1 Sofala .2 Transvaal .3 Zululand .4 Natal .5 Orange Free State .6 Kaffraria .7 Cape Colony .8 West Coast .9 Interior: Rhodesia, Mashona

969 Madagascar Mauritius

970 North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes .4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.

See 371.975 Education; 572.97 Ethnology; 497 Languages

971 Canada British America

General works on Canada under British rule

For histories of special periods see 971.01–.054; of special provinces see 971.1–.9

For constitutional history see 342.71

Period subdivisions

For works not limited to any of the territorial subdivisions .1–.9 but dealing with a limited period

Class archives with their periods and segregate them if wisht by booknumbers that will automatically locate them ahed of other histories having the same class number: e.g. A1–A9 if Cutter numbers are used for other works; Aa–Az if Cutter-Sanborn numbers are used

.01 French regime 1497–1763

From earliest time till cession to England

.011 Discovery and early settlement 1497–1632

Early explorations along Atlantic seaboard 1497–1533. Discovery and occupation of St Lawrence 1534–43. Rise of fur trade 1544–1612. Permanent colonization 1613–32

.016 Extension of English rule 1632–1763

Treaty of St Germain-en-Laye 20 Mar. 1632

.018 Struggle with England for supremacy

Peace of Utrecht 1713–Peace of Paris 1763. Seven years war 1755–63; in United States cald French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 End of 7 years war to constitutional act 1791

Conspiracy of Pontiac 1763–64

Quebec act 1774

.024 American revolution United Empire loyalists

Canadian libraries will class here United Empire loyalists, but works on the revolution 1775–83 are better put in 973.3

.03 1792 to Union act 1841

See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812

1812–15 In United States cald also 2d war for independence

Better clast in 973.52 (United States history)

.038 Rebellion 1837–38

.039 Union act 10 Feb. 1840

Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719

.04 Union 1841 to Confederation 1867

Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reservs agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act, 29 March 1867

.05 Dominion of Canada 1867–

Canada under British North America act

.051 Red river (Riel's 1st) rebellion 1870

.054 Northwest (Riel's 2d) rebellion 1885

Geografic divisions

971.1 **British Columbia**

.2 **Northwest Territories**

Including former Hudson Bay territory

.21 **Yukon**

Klondike region Dawson (city)

.22 Mackenzie

.23 **Alberta**

.24 **Saskatchewan**

.26 Keewatin

.27 **Manitoba**

.28 Ungava

.29 Franklin

See also 998 Arctic region

.3 **Ontario**

For St Lawrence river see 971.4
Formerly also Upper Canada or Canada West
See also 971.4 note Class here Clergy reservs

.31 **Northwestern**

North shore of Lake Superior and Lake Huron; Georgian bay

.311 Rainy River district

Lake of the Woods Rainy lake

.312 Thunder Bay district

5 *Fort William*

.313 Algoma district

Sault Ste Marie

5 Manitoulin iland

.314 Nipissing district

.315 Parry Sound Maganetawan districts

.316 Muskoka Lake of Bays district

.317 Simcoe

.318 Grey Owen Sound (or Sydenham)

.32 **Western**

East shore of Lake Huron

.321 Bruce

.322 Huron

.323 Perth

.324

.325 Middlesex

.326 *London* (city)

.327 Lambton

.33 **Southwestern**

North shore of Lake Erie

.331 Essex

.332 *Windsor* (city)

.333 Kent

.334 Elgin

.335 *St Thomas* (city)

.336 Norfolk

.337 Haldimand

.338 Welland

971.34	**West central**
.341	Dufferin
342	Wellington
.343	*Guelph* (city)
.344	Waterloo
.345	*Berlin* (city)
.346	Oxford
347	Brant
.348	*Brantford* (city)
971.35	**Southern**
	West and North shore of Lake Ontario
.351	Lincoln
	St Catherines (city)
.352	Wentworth
	Hamilton (city)
.353	Halton Peel
.354	York
1	*Toronto* (city)
.355	Ontario
.356	Durham
.357	Northumberland
.358	Hastings
7	Prince Edward
.359	Lennox and Addington
.36	**Central**
.361	Haliburton
.362	
.363	
.364	Victoria
.365	
.366	
.367	Peterborough
.368	*Peterborough* (city)
.369	
.37	**Southeastern**
	St Lawrence river counties
.371	Frontenac
.372	*Kingston* (city)
.373	Leeds
	Rideau lakes and canal
.374	Grenville
.375	Dundas
.376	Stormont
.377	Glengarry
.378	
.379	
.38	**Northeastern**
	Ottawa river counties
.381	Renfrew
.382	Lanark
.383	Carleton
.384	*Ottawa* (city)
.385	Russell
.386	Prescott

971.4 Quebec St Lawrence river

Lower Canada or Canada East

From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada; union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its erly settlers.

.41 **Northern**
.411 Mistassini
.412 Abitibi
.414 Lake St John
.416 Chicoutimi
.417 Saguenay Anticosti iland
.419 Ashuanipi
.42 **Western** Ottawa river counties
.421 Pontiac
.422 Ottawa (former county)
1 Wright
2 *Hull* (city)
5 Labelle
.423 Argenteuil
.424 Terre Bonne
.425 Two Mountains
.426 Vaudreuil
5 Soulanges
.427 Laval
.428 Hochelaga
1 *Montreal* (city)
5 Jacques Cartier
.43 **Southwestern** South of the St Lawrence and west of Richelieu river
.431 Huntingdon
.432 Beauharnois
.433 Chateaugay
.434 La Prairie
.435 Napierville
.436 Verchères
.437 Chambly
.438 St Johns
.44 **North central** North of St Lawrence from Montreal to Saguenay river
.441 Montcalm
6 L'Assomption
.442 Joliette
.443 Berthier
.444 Maskinonge
.445 St Maurice
.446 Champlain
6 Portneuf
.447 Quebec
1 *Quebec* (city)
.448 Montmorency
Île d'Orléans
.449 Charlevoix

971.45 **South Central**
Counties south of St Lawrence from Richelieu river to Quebec
.451 Richelieu
.452 St Hyacinthe
5 Bagot
.453 Rouville
.454 Yamaska
.455 Nicolet
.456 Drummond
5 Arthabaska
.457 Wolfe
5 Megantic
.458 Lotbinière
.459 Levis
.46 **Southern**
Southern border from Richelieu river to Lake Megantic
.461 Iberville
.462 Missisquoi
.463 Shefford
.464 Brome
.465 Richmond
.466 Sherbrooke
Sherbrooke (city)
.467 Stanstead
.468 Compton
.469 Lake Megantic
.47 **Southeastern**
Lower St Lawrence, southern side from Quebec to Gulf of St Lawrence
.471 Beauce
.472 Dorchester
.473 Bellechasse
5 Montmagny
.474 L'Islet
.475 Kamouraska
.476 Temiscouata
.477 Rimouski
5 Matane
.478 Bonaventure
.479 Gaspé
7 Magdalen ilands

.5 New Brunswick

.51 **Northern**
.511 Restigouche
.512 Gloucester
.52 **Eastern**
.521 Northumberland
.522 Kent
.523 Westmoreland
Monckton (city)

971.53 **Southern**
.531 Albert
.532 St John
St John (city)
.533 Charlotte
Grand Manan iland
.54 **Central**
.541 Kings
.542 Queens
.543 Sunbury
.55 **Western**
.551 York
Fredericton (city)
.552 Carleton
.553 Victoria
.554 Madawaska

.6 **Nova Scotia**
.61 **Northern**
.611 Cumberland
.612 Colchester
.613 Pictou
.614 Antigonish
.62 **Southern**
.621 Guysborough
.622 Halifax co. and city
.623 Lunenburg
.624 Queens
.625 Shelburne
.63 **Western**
.631 Yarmouth
.632 Digby
.633 Annapolis
.634 Kings
.635 Hants

.69 Cape Breton (iland)
.691 Inverness
.693 Victoria
.695 Cape Breton
.696 *Sydney* (city)
.698 Richmond

.7 **Prince Edward Island**
.71 Prince
.74 Queens
.75 *Charlottetown* (city)
.77 Kings

.8 **Newfoundland**

.9 **Labrador**

For Moravian missions see 266.46

972 Mexico Central America

Period divisions

.01	Ancient civilization	— 1516
	1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	
.02	Discovery and Spanish rule	1516–1810
.03	Independence	1810–1822
.04	First empire Iturbide 1 Pronunciamientos	1822–1845
.05	War with United States. See also 973.6	1845–1848
.06	Constitution of '57 Reform	1848–1861
.07	French intervention	1861–1867
.08	Later history	1867–

Geografic divisions

.1 Free zone and Northern states
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 Lower California and ilands

.3 Central Pacific states
Sinaloa, Jalisco, Colima, Michoacan

.4 Interior states
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 Mexico Federal district

.6 Southern Gulf states
Vera Cruz, Tabasco, Campeche, Yucatan

.7 Southern Pacific states
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81 Guatemala

.82 British Honduras Belize

.83 Honduras

.84 San Salvador

.85 Nicaragua

.86 Costa Rica

.9 West Indies

.91 Cuba

.92 Jamaica

.93 Santo Domingo

.94 Hayti

.95 Porto Rico

.96 Bahamas

.97 Leeward ilands

.98 Windward ilands Barbados

.99 Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901
.91	Early 20th century	1901–

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislativ bodies and annals; 329 Political parties; 353 U. S. government

.1 Discovery —1607

From earliest times to settlement of Jamestown

See also 970.1–6 American indians; 913.7 American antiquities; 571.91 Mounds and mound bilders; 571.85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs
Jews
Africans
Irish
Poles
Germans Martin Behaim
Italians

.12 Chinese

.13 Norse
- Gunnbiorn
- Eric the Red
- Leif Ericson
- Bjarni Herjulfson
- Thorwald
- Thorfinn Karlsefne

14 Welsh
- Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–2 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 985 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 **French**

Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971 History of Canada

.19 **Other nations**

.2 **Colonial Period** 1607–1775

See also histories of separate colonies

.21 **Virginia settlement 1607–20**

Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603–25

.22 **New England settlement 1620–43**

Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

Charles 1 1625–49

.23 **New England confederacy 1643–64**

United colonies of New England 19 May 1643

Commonwelth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 **Conquest of New Netherlands 1664–89**

King Philip's war 1675–76 Massachusetts
War with eastern indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89

Charles 2 1660–85
James 2 1685–88

.25 **Early French wars 1689–1732**

Witchcraft in New England See 133.4
King William's war 1689–97

Sometimes cald in Europe 'War of the Palatinate'

Queen Anne's war 1702–13

Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 **Extension of English rule 1732–63**

Settlement of Georgia 1732 See 975.8 Georgia history
King George's war 1744–48

Known in Europe as War of the Austrian succession

Albany convention assembled 19 June 1754
French and indian war 1755–63

Known in Europe as Seven years war

Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 **Last years of the colonies 1763–75**

See also specially 973.311 Causes of the Revolution

Conspiracy of Pontiac 1763–64
Bouquet's expedition 1763–64
Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760–1820

973.3 Revolution and confederation 1775–89

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
.33 Special campains and battles
34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narrativs
.39 Illustrativ material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775
1 Stamp act 1765
2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767 Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775–83
Continental congress See 328.73 U. S. legislativ bodies

.313 Declaration of independence 4 July 1776 See also 973.361
Mecklenburg declaration 20 May 1775

.314 Loyalists, tories See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution
Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89
Shay's rebellion 1786–87 Massachusetts
Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 946; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campains and battles

.331 Campains of 1775
1 Lexington and Concord 19 April See also 973.362
2 Bunker Hill 17 June See also 973.366
3 Siege of Boston June 1775-March 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

973.332 Campains of 1776
1 Campain for the Hudson
2 Battle of Long Island 27 Aug.
3 British occupation of New York
4 American retreat Sep.–Nov. 1776
Harlem Hights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov.
5 Washington in the Jerseys Dec. 1776–Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's iland 28 June

.333 Campains of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campain
Ticonderoga evacuated 6 July
Hubbardton, Vt 7 July
Bennington, Vt 16 Aug.
3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
Bemis Hights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug.
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campain
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud iland, or Fort Mifflin 10–16 Nov.
8 Events in south Including Kentucky

.334 Campains of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations See also 973.343
Wyoming 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant See also 970.2 Indian biografy
6 Rhode Island campain, August See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973.335 Campains of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest See 973.3348

.336 Campain of 1780
1 Southern campains
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion

.337 Campains of 1781
1 Southern campains
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N. C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.

.338 Campains of 1782

.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**
.341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers
1
2 New Hampshire
3 Vermont Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
2 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburg addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973.36 **Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

.361 Fourth of July See also 973.313

.362 19th of April See also 973.3311

.363 Evacuation day, New York See also 973.339

.364

.365 Monuments, memorials See also 718

.366 Bunker Hill monument See also 973.3312

.367 Washington's various hedquarters

Newburg, N. Y.

Morristown, N. J.

.37 **Prisons, hospitals, etc.**

.371 English prisons

1 Jersey prison ship

2 Sugar house prison

.372 American prisons

.373 Exchange of prisoners

.374

.375 Medical dep't; surgeons, nurses, etc.

.376 Hospitals

.377

.378

.379

.38 **Personal narrativs, vindications, secret servis**

.381 Treason and traitors See also 973.314 Loyalists, tories

.382 Benedict Arnold

.383 Charles Lee

.384

.385 Secret servis, spies

American side: Nathan Hale

.386 British side: Major John André

.39 **Illustrativ material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here

.391 Poetry

.392 Drama

.393 Fiction

.394 Addresses

.395 Sermons

.396 Humor

.397 Pictures

Paintings, drawings, caricatures, engravings, photografs, sculpture

.398 Music

.399 Maps

973.4 **Constitutional period** 1789-1809

See 342.73 U. S. constitution; 329.1 Federal party 1789–1823; 329.2 Antifederal party 1789–92

.41 **George Washington** 30 Ap. 1789–4 Mar. 1797

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into offis 30 Ap. 1789

National bank establisht 25 Feb. 1791 See 332.11

Vermont admitted, 14th state 4 Mar. 1791 See 974.3

Kentucky admitted, 15th state 1 June 1792 See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's 2d term 4 Mar. 1793–4 Mar. 1797

Neutrality proclamation 22 Ap. 1793 See also 341.3

Whisky insurrection July–Nov. 1794

Wayne's expedition, Oct.–Nov. 1794, and treaty, 3 Aug. 1795

Jay's treaty 28 Oct. 1795 See also 341.2

Treaty with Spain 27 Oct. 1795 See also 341.2

Tennessee admitted, 16th state 1 June 1796 See 976.8

.44 **John Adams** 4 Mar. 1797–4 Mar. 1801

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798 See 341.5

Sedition act 14 July 1798 See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 **Thomas Jefferson** 4 Mar. 1801–4 Mar. 1809

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state 19 Feb. 1803 See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805–4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.27 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 **War of 1812** 1809-45

.51 **James Madison** 4 Mar. 1809–4 Mar. 1817

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state 30 Ap. 1812 See 976.3

Indiana admitted, 19th state 11 Dec. 1816 See 977.2

973.52 War of 1812
War declared 18 June 1812. Treaty of peace 24 Dec. 1814

.521 Political history; causes, results
Hartford convention

.522 Diplomatic history

.523 Special campains and battles

1 Campain in northwest
Includes all west of New York
Surrender of Detroit 16 Aug. 1812

2 Events in northwest 1813–14

3 Campain in New York, New England and Canada
Battle of Queenstown 13 Oct. 1812

4 Events in New York and New England 1813
Capture of Fort Niagara 19 Dec.

5 Events in Canada 1813
Capture of Fort George 27 May
Battle of Thames 5 Oct.

6 Events in New York and New England 1814
Bombardment of Stonington, Conn. 9–12 Aug.

7 Events in Canada 1814
Capture of Fort Erie 3 July
Battle of Chippewa 5 July
Battle of Lundy's lane 25 July

8 Campain in the south
Battle of Bladensburg 24 Aug. 1814
Burning of Washington 24 Aug. 1814
Bombardment of Fort McHenry 13 Sep. 1814

9 Events in Louisiana
Battle of New Orleans 22 Dec. 1814–8 Jan. 1815

.524 General military history

1 English side

2 Indian allies

3

4 American side in general
Divided like 974. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of soldiers

5 South Atlantic states
Divided like 975

6 Gulf states
Divided like 976

7 Lake states
Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprize and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.36
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons Dartmoor
.528 Personal narrativs, vindications, secret servis
.529 Illustrativ material Divided like 973.39
.53 Algerine war
.54 James Monroe **4 Mar. 1817–4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state 10 Dec. 1817 See 976.2
Illinois admitted, 21st state 3 Dec. 1818 See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state 14 Dec. 1819 See 976.1
Maine admitted, 23d state, 15 Mar. 1820 See 974.1
Missouri compromise See 326.973 and 973.7113
Missouri admitted, 24th state 10 Aug. 1821 See 977.8
Monroe doctrin Dec. 1823 See 327.73
Tariff act 22 May 1824 See 337
.541 First Seminole war 1818
.55 John Quincy Adams **4 Mar. 1825–4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825 See 386
Panama congress 1826 See 341.1
Removal of Creek indians 1825–29 See 970.3
Tariff act 19 May 1828 See 337

973.56 **Andrew Jackson** **4 Mar. 1829–4 Mar. 1837**
Born 15 Mar. 1767; died 8 June 1845
Rotation in offis See 351.6
United States bank See 332.11
Whig party See 329.4
Compromise tariff act 3 Mar. 1833 See 337
Independence of Texas 2 Mar. 1836 See 976.4
Arkansas admitted, 25th state 15 June 1836 See 976.7
Specie circular 11 July 1836 See 336.73
Michigan admitted, 26th state 26 Jan. 1837 See 977.4
.561 Nullification See also 342.73
Webster and Hayne debate 25–27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 **Martin Van Buren** **4 Mar. 1837–4 Mar. 1841**
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837 See 332
Alton riot 7 Nov. 1837 See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war Feb.–Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835–42
.58 **William Henry Harrison** **4 Mar. 1841–4 Ap. 1841**
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler **4 Ap. 1841–4 Mar. 1845**
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May–June 1842 See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state 3 Mar. 1845
.6 War with Mexico **1845-61**
.61 **James Knox Polk** **4 Mar. 1845–4 Mar. 1849**
Born 2 Nov. 1795; died 15 June 1849
Texas annext, 28th state 29 Dec. 1845 See 976.4
Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
Iowa admitted, 29th state 28 Dec. 1846 See 977.7
Wisconsin admitted, 30th state 29 May 1848 See 977.5
Free soil party; Buffalo convention Aug. 1848 See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1849
.62 Mexican war 1845–48
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campains and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campain
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20–25 Sep. 1846
Buena Vista 22–23 Feb. 1847

973.623 6 Scott's campain
7 Vera Cruz 22–29 Mar. 1847
Cerro Gordo 17–18 Ap.
8 Battles near Mexico
Contreras 19–20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12–13 Sep.
Mexico 14 Sep.
.624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narrativs
.629 Illustrativ material See note under 973.39
.63 Zachary Taylor 5 Mar. 1849–9 July 1850
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bill, introduced by Henry Clay 29 Jan. 1850 See also 326.973 and 973.7113
.64 Millard Fillmore 9 July 1850–4 Mar. 1853
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850 See also 386
California admitted, 31st state 9 Sep. 1850 See 979.4
Fugitiv slave law 18 Sep. 1850 See 326.973
Popular soverenty, or squatter soverenty See 342.73 and 326.973
Filibustering expeditions to Cuba 1849–51 See 972.91
.65
.66 Franklin Pierce 4 Mar. 1853–4 Mar. 1857
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party See also 329.5
Republican party See also 329.6
Com. Perry's expedition to Japan 1852–54 See also 915.2 and 341.27_3
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bill 30 May 1854 See also 326.973, 978.1 and 978.2
Ostend manifesto 18 Oct. 1854 See also 972.91
Walker's filibuster expedition against Nicaragua 1855 See also 972.85
.67
.68 James Buchanan 4 Mar. 1857–4 Mar. 1861
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857 See also 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857
See also 978.1
Minnesota admitted, 32d state 11 May 1858 See 977.6
Oregon admitted, 33d state 14 Feb. 1859 See 979.5
John Brown's raid 16–17 Oct. 1859 See also 973.7116 and 326.973
Kansas admitted, 34th state 29 Jan. 1861 See 978.1
.69

973.7 War of secession 4 Mar. 1861—15 Ap. 1865

SUMMARY OF 973.7

.71 Political history
.72 Diplomatic history
.73 Special campains and battles
.74 General military history
.75 Naval history
.76 Celebrations
.77 Prisons, hospitals
.78 Personal narrativs
.79 Illustrativ material

Abraham Lincoln 4 Mar. 1861--15 Ap. 1865

Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861–4 Mar. 1865; 2d term 4 Mar. 1865–15 Ap. 1865

.71 **Political history; causes, results**

West Virginia admitted, 35th state 19 June 1863 See 975.4
Nevada admitted, 36th state 31 Oct. 1864 See 979.3

.711 Causes

1 Slavery See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820 See also 973.54
Wilmot proviso 1846 See also 973.61
Compromise of 1850 See also 973. 63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks 22 May 1856
5 Fugitiv slaves
Underground railway
Dred Scott case See also 973.68
6 John Brown's raid See also 973.68
7 States' rights
8 Tariff See also 337

.712 Efforts to preserv peace

Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861

.713 Secession of southern states

South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate States of America formd 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June

For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328

.714 Results of the civil war

Emancipation proclamation 1 Jan. 1863 See also 326.8
Freedmen's bureau See 361

For the present condition of negro, see 325.26
For negro colony in Liberia, Africa, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north
.72 Diplomatic history: relations with other nations
Divided like 940; e. g. 973.722 Relations with England 973.727 Russia
.721 Diplomatic history of confederate states
Divided like 940; e. g. 973.7214 Relations of confederate states with France
.73 Special campains and battles
General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73
.731 Campain of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
Bombardment of Fort Sumter 12-14 April
2 Operations in other southern states (see *Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 April
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862
.732 Campain of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia 19 Nov. 1861-4 March 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke iland, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.

973.732 Campain of 1862 *continued*
7 Peninsular campain, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W. 10 Ap.-20 Nov.

.733 Campain of 1862 *concluded*
1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June–31 Oct.
4 West Tennessee, northern Mississippi 10 June–20 Jan. 1863
Battle of Corinth, Miss. 3–4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.–14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16–17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.–20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.–25 Jan. 1863
9 Battle of Fredericksburg, Va. 11–15 Dec.

.734 Campain of 1863
1 Missouri, Arkansas, Kansas, Indian Territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.–10 Aug.
Middle Tennessee, or Tullahoma campain 23 June–7 July
Morgan's Ohio raid 2–26 July
3 Mississippi, west Tennessee 20 Jan.–10 Aug.
4 Siege of Vicksburg, Miss. 19 May–4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.–3 June
6 Chancellorsville, Va. campain 27 Ap.–6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May–31 Dec.
Siege of Port Hudson, La. 21 May–8 July
8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania Dep't of East 3 June–3 Aug.
9 Battle of Gettysburg, Pa. 1–3 July

973.735 Campain of 1863, *continued*
1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec.
Operations on Morris iland, S. C. 10 July–7 Sep.
Occupation of Battery Wagner, S. C. 6–7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.–31 Dec.
Bombardment of Charleston, S. C. 21 Aug.–31 Dec.
3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
Bristoe, Va. campain 9–22 Oct.
Mine Run, Va. campain 26 Nov.–2 Dec.
4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.
5 Chickamauga, Ga. campain 16 Aug.–22 Sep.
Battle of Chickamauga, Ga. 19–20 Sep.
6 East Tennessee campain 16 Aug.–19 Oct.
7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.–31 Dec.
8 Knoxville, Tenn. campain 4 Nov.–23 Dec.
Siege of Knoxville, Tenn. 17 Nov.–4 Dec.
9 Chattanooga-Ringgold campain 23–27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.
.736 Campain of 1864
1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 Jan.–30 Ap.
Meridian, Miss. expedition 3 Feb.–6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.–14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.
2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.–30 Ap.
Expedition against New Berne, N. C. 28 Jan.–10 Feb.
Engagement at Morton's Ford, Va. 6–7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.–4 Mar.
3 Louisiana, trans-Mississippi 1 Jan.–30 June
Red river, La. campain 10 Mar.–22 May
Camden, Ark. expedition 23 Mar.–3 May
4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
Charleston, S. C. harbor and vicinity
Florida expedition 5–22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
5 Southeastern Virginia, North Carolina 1 May–12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12–16 May
Operations on the Bermuda Hundred, Va. front 17 May–2 June
Engagement at Petersburg, Va. 9 June
6 Battle of the Wilderness, Va. 5–7 May
7 Operations about Spottsylvania Court-House, Va. 8–21 May
8 Operations at and about Cold Harbor, Va. 31 May–12 June
9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May–3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campain 26 May–29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campain of 1864, *continued*
1 Northern Georgia 1 May–8 Sep.
Atlanta, Ga. campain
Battle of Atlanta, Ga. 22 July
2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May–13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14–15 July
Operations in Mobile bay, Ala. 2–23 Aug. See 973.754
Engagement at Allatoona, Ga. 5 Oct.
3 Southeastern Virginia, North Carolina 13 June–31 July
Richmond, Va. campain
Assaults on the Petersburg lines 15–18 June
Explosion of the mine and assault on the crater 30 July
4 Louisiana, trans-Mississippi 1 July–31 Dec.
Price's Missouri expedition 29 Aug.–2 Dec.
5 Southeastern Virginia, North Carolina 1 Aug.–31 Dec.
Richmond, Va. campain
Expedition to Fort Fisher, N. C. 7–27 Dec.
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.–31 Dec.
7 Shenandoah valley campain, Va. 7 Aug.–28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.
8 South Carolina, Georgia, Florida 14 Nov.–31 Dec.
Savannah, Ga. campain, or Sherman's march to the sea 15 Nov.–21 Dec.
9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.–23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15–16 Dec.
.738 Campain of 1865
1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.–30 June
2 Richmond, Va. campain 1 Jan.–3 Ap.
3 Expedition to and capture of Fort Fisher, N. C. 3–17 Jan.
4 Appomattox, Va. campain 29 Mar.–9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.
5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.–30 June
Campain of the Carolinas 1 Jan.–26 Ap.
6 Louisiana, trans-Mississippi 1 Jan.–30 June
7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.–30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.–24 Ap.
8 Mobile, Ala. campain 17 Mar.–4 May
9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 General military history

.741 Northern side

1 Regular army

2 Volunteers, quotas

3 Bounties

4 Drafts

5 Negro troops

6 Special armies or corps

Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.

7 Special branches or servises

Cavalry
Artillery
Engineers
Signal servis
Guerrillas
Commissariat

8 General orders

9 Regimental losses

742 Southern side

Guerrillas

.743 Foren elements

Divided like 940

.744–.749 Separate states and regimental histories

Divided like 974–979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers

A for official publications

A 1 Adjutant-general's reports

A 2 Lists of soldiers

B–D, General works on the part taken by the state in the conflict

B whole state, C county, D town

E Histories of cavalry regiments

F Hevy artillery

G Light artillery

J–L Infantry

J regiments 1–99
K regiments 100–199
L regiments 200–299
The individual regiment is markt by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixt to the number for the 1st 10 regiments, J09 9th regiment of infantry
For the border states which also had regiments on the confederate side use similarly P–S

O Special brigades

P Cavalry

Q Hevy artillery

R Light artillery

S Infantry

For those states which past ordinances of secession (see list under 973.713) reverse these numbers using E–L for confederate regiments and P–S for Union regiments
Special numbers must be arranged for unnumberd and peculiarly numberd regiments and companies

973.75 **Naval history**

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campains and battles 973.73 and its subdivisions

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316

Port Royal, S. C. 7 Nov. See also 973.7319

Belmont, Mo. 7 Nov. See also 973.7315

Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322

Roanoke iland, N. C. 7–8 Feb. See also 973.7324

Fort Donelson, Tenn. 14 Feb. See also 973.7322

Monitor and Merrimac. 8–9 Mar.

Island nr 10, Ky. 16 Mar.–8 Ap. See also 973.7325

New Orleans, La. 18 Ap.–1 May See also 973.7321

Memphis, Tenn. 6 June See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331

Vicksburg, Miss. 16 Ap. See also 973.7343

Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.–22 May See also 973.7362

Sassacus and Albemarle, Albemarle sound, N. C. 5 May

See also 973.7365

Alabama and Kearsarge, off Cherbourg, France 19 June

Mobile bay, Ala. 5–22 Aug. See also 973.7372

Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14–15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron

Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships

Alabama

Shenandoah

Florida

.758 Blockade and blockade running

.759 Privateers

.76 **War meetings, celebrations, anniversaries, commemorations**

See note under 973.36

For patriotic societies commemorating the civil war see 369.15–.17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials See also 718

.766

.767 Roll of honor List of ded For national cemeteries, see 719

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**
.771 Southern prisons, prison life
1 Andersonville
2 Libby prison
.772 Northern prisons
.773 Exchange of prisoners, paroles
.774
.775 Medical dep't, surgeons, nurses For military surgery see 617.99
.776 Hospitals, hospital sketches
.777 Charities
Soldiers homes, see 362.8
Soldiers orphan asylums, see 362.7
Freedmen's bureau, see 361
Pensions, See 351.5
1 U. S. sanitary commission
2 Sanitary fairs
.778 Religious life, chaplains, revivals
1 U. S. Christian commission See also 267.11
.78 Personal narrativs, vindication, secret servis
Personal narrativs when relating to some special battle or event should be clast according to their subject
.781 Personal narrativs, northern side
Including volumes of G. A. R. papers and Loyal legion
.782 Personal narrativs, southern side
.783 Army life
.784 Southern army life, southern home life
.785 Secret servis, spies
.786 Southern side
.79 Illustrativ material
See note under 973.39
.791 Poetry
.792 Drama
.793 Fiction
.794 Addresses
.795 Sermons
.796 Humor
.797 Pictures
Paintings, drawings, caricatures, engravings, fotografs, sculpture
.798 Music
.799 Maps
.8 Later 19th century 1865–1901
Period of reconstruction and civil servis reform
.81 Andrew Johnson 15 Ap. 1865–4 Mar. 1869
Born 29 Dec. 1808; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See also 326.8 and 342.739
Fenian invasion of Canada 31 May–2 June 1866 See also 971
Nebraska admitted, 37th state 1 Mar. 1867 See 978.2
Cession of Alaska by Russia 20 June 1867
Impeachment of Pres. Johnson Mar.–May 1868 See 351.99
14th amendment guaranteeing citizenship, adopted 28 July 1868
See 342.739

973.82 **Ulysses Simpson Grant** **4 Mar. 1869–4 Mar. 1877**

Born 27 Ap. 1822; died 23 July 1885

Treaty for annexation of Santo Domingo, signd 29 Nov. 1869; rejected by senate 30 June 1870 See also 972.93

15th amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 324.1 and 342.739

First provision for civil servis reform 3 Mar. 1871 See also 351.6

Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757

Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872

Crédit mobilier investigation Dec. 1872–Feb. 1873

Coinage act 12 Feb. 1873 See 332.47

Modoc war, California Nov. 1872–June 1873

Financial panic 19–30 Sep. 1873 See 332

Virginius incident Oct.–Dec. 1873

Whisky ring 1872–75 See 336.73

Civil rights act . 1 Mar. 1875

Colorado admitted, 38th state 1 Aug. 1876 See 978.8

Centennial exposition, Philadelphia 10 May–10 Nov. 1876 See 606

Electoral commission Feb. 1877

.83 **Rutherford Birchard Hayes** **4 Mar. 1877–4 Mar. 1881**

Born 4 Oct. 1822; died 17 Jan. 1893

Halifax fishery award 23 Nov. 1877

Bland silver act 28 Feb. 1878 See 332.47

Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84 **James Abram Garfield** **4 Mar. 1881–19 Sep. 1881**

Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur **19 Sep. 1881–4 Mar. 1885**

Born 5 Oct. 1830; died 18 Nov. 1886

International cotton exposition 5 Oct.–31 Dec. 1881 See 606

Edmund act to suppress polygamy 22 Mar. 1882 See also 298

Pendleton civil servis reform act 11 Jan. 1883 See 351.6

.85 **Grover Cleveland** **4 Mar. 1885–4 Mar. 1889**

Born 18 Mar. 1839; died 24 June 1908

Act regulating the presidential succession 19 Jan. 1886 See 353.03

Mexican war pension act 29 Jan. 1887 See 351.5

Act creating Interstate commerce commission 4 Feb. 1887 See 385

Dependent pension bill vetoed 11 Feb. 1887 See 351.5

Centennial anniversary of Constitution, Philadelphia, Pa. 15–17 Sep. 1887

Act to establish the Labor dep't 13 June 1888 See 331

Fisheries treaty, signd 15 Feb. 1888; rejected by senate 21 Aug. 1888

See 333.9 and 341.273

Act to make Agriculture dep't an executiv dep't 9 Feb. 1889

See also 630.6 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889–4 Mar. 1839**
Born 20 Aug. 1833; died 13 Mar. 1901
Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 978.4
South Dakota admitted, 40th state 2. Nov. 1889 See 978.3
Montana admitted, 41st state 8 Nov 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 979.7
International American conference 2 Oct. 1889–19 Ap. 1890
See 341.1
Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890
See 332.47
McKinley tariff act 1 Oct. 1890 See 337.3
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn, 9 Mar. 1893 See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893–4 Mar. 1897**
World's Columbian exposition, Chicago 1 May–30 Oct. 1893
See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893 See 332.47
Wilson tariff act 27 Aug. 1894 See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895 See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896 See 987
Utah admitted, 45th state 4 Jan. 1896 See 979.2

.88 **William McKinley** **4 Mar. 1897–14 Sep. 1901**
Born 29 Jan. 1844; died 14 Sep. 1901
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signd 12 Aug. 1898
Treaty of peace signd at Paris, 10 Dec. 1898; ratified, 11 April 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Porto Rico

.892 Diplomatic history

.893 Special campains and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898

.894 General military history
May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries

.897 Prisons, hospitals, etc.

.898 Personal narrativs

.899 Illustrativ materials

973.91	**Early 20th century**	1901–
.911	**Theodore Roosevelt** Born 27 Oct. 1858; died 6 Jan. 1919	14 Sep. 1901–4 Mar. 1909
.912	**William Howard Taft** Born 15 Sep. 1857	4 Mar. 1909–4 Mar. 1913
.913	**Woodrow Wilson** Born 28 Dec. 1856	4 Mar. 1913–
	War with Germany 1917-19	

974 Northeastern or North Atlantic New England

.1 Maine

Admitted 15 Mar. 1820 as 23d state
Area 33,040 sq. mi. 16 counties Population 742,371 in 1910
Sobriquets: Pinetree state, Polar Star state Capital: Augusta

		Population in 1910	
.11	Aroostook	74 664	
.12	Somerset	36 301	
	Piscataquis	19 887	
.13	Penobscot	85 285	
.14	Washington	42 905	
	Hancock	35 575	
.15	Waldo	23 383	
	Knox	28 981	
	Lincoln	18 216	
.16	Kennebec	62 863	
.17	Franklin	19 119	
	Oxford	36 256	
.18	Androscoggin	59 822	
	Sagadahoc	18 574	
.19	Cumberland	112 014	
	Portland		*58 571*
	York	68 526	

.2 New Hampshire

Area 9341 sq. mi. 10 counties Population 430,572 in 1910
Sobriquet: Granit state Capital: Concord

		Population in 1910
.21	Coos	30 753
.22	*White mts*	
.23	Grafton	41 652
.24	Carroll	16 316
	Belknap	21 304
.25	Strafford	38 951
.26	Rockingham	52 188
.27	Merrimac	53 335
	Sullivan	19 337
.28	Hillsboro	126 072
.29	Cheshire	30 659

.3 Vermont

Area 9564 sq. mi. 14 counties Population 355,956 in 1910
Sobriquet: Green Mt state Capital: Montpelier

		Population in 1910
.31	Grand Isle	3 761
	Franklin	29 866
	Chittenden	42 447
.32	Orleans	23 337
	Essex	7 384
.33	Caledonia	26 031
	Lemoille	12 585
.34	Washington	41 702
.35	Addison	20 010
.36	Orange	18 703
	Windsor	33 681
.37	Rutland	48 139
.38	Bennington	21 378
.39	Windham	26 932

974.4 **Massachusetts**

Area 8266 sq. mi. 14 counties
Population 3,366,416 in 1910
Sobriquet: Bay state Capital: Boston

		Population in 1910	
.41	Berkshire	105 259	
.42	Franklin	43 600	
	Hampshire	63 327	
	Hampden	231 369	
.43	Worcester	399 657	
.44	Middlesex	669 915	
.45	Essex	436 477	
.46	Suffolk	731 388	
	Boston		*670 585*
.47	Norfolk	187 506	
.48	Plymouth	144 337	
	Bristol	318 573	
.49	Barnstable	27 542	
	Dukes	4 504	
	Nantucket	2 962	

.5 **Rhode Island**

Area 1248 sq. mi. 5 counties
Population 542,610 in 1910
Sobriquet: Little Rhody Capital: Providence

		Population in 1910	
.51	Providence	424 353	
.52	*Providence* (city)		*224 326*
.53	*Pawtucket* "		*51 622*
.54	Kent	36 378	
.55	Bristol	17 602	
.56	Newport	39 335	
.57	*Newport* (city)		*27 149*
.58	*Block Island*		
.59	Washington	24 942	

.6 **Connecticut**

Area 4965 sq. mi. 8 counties
Population 1,114,756 in 1910
Sobriquet: Wooden Nutmeg state Capital: Hartford

		Population in 1910	
.61	Litchfield	70 260	
.62	Hartford	250 182	
.63	*Hartford* (city)		*98 915*
.64	Tolland	26 459	
	Windham	48 361	
.65	New London	91 253	
.66	Middlesex	45 637	
.67	New Haven	337 282	
.68	*New Haven* (city)		*133 605*
.69	Fairfield	245 322	

974.7 **New York**

Area 49,204 sq. mi. 61 counties (exclusiv of Bronx)
Population 9,113,614 in 1910
Sobriquet: Empire state Capital: Albany

		Population in 1910	
.71	*New York* (city)	4 766 883	
.72	Vicinity of New York city		
.721	**Long Island**		*2 098 460*
.722	Kings county	1 634 351	
.723	*Brooklyn*		*1 634 351*
.724	Queens county	284 041	
5	Nassau "	83 930	
.725	Suffolk "	96 138	
.726	Richmond " Staten Island	85 969	
.727	Westchester "	283 055	
5	*Bronx boro* (and county)	430 980	
.728	Rockland county	46 873	
.73	Southeast counties		
.731	Orange, *West Point*	116 001	
.732	Putnam	14 665	
.733	Dutchess	87 661	
.734	Ulster	91 769	
.735	Sullivan	33 808	
.736	Delaware	45 575	
.737	Green	30 214	
.738	*Catskill mts*		
.739	Columbia	43 658	
.74	Middle east counties		
.741	Rensselaer	122 276	
	Troy		*76 813*
.742	Albany	173 666	
.743	*Albany* (city)		*100 253*
.744	Schenectady	88 235	
.745	Schoharie	23 855	
.746	Montgomery	57 567	
.747	Fulton	44 534	
.748	Saratoga	61 917	
.749	Washington	47 778	
.75	Northern counties		
.751	Warren	32 223	
	Lake George		
.752	Hamilton	4 373	
.753	Essex	33 458	
	Adirondaks		
.754	Clinton	48 230	
	Lake Champlain		
.755	Franklin	45 717	
.756	St Lawrence	89 005	
.757	Jefferson	80 382	
.758	*Thousand Islands*		
.759	Lewis	24 849	

New York

974.76	North central counties	*Population in 1910*	
.761	Herkimer	56 356	
.762	Oneida	154 157	
.763	*Utica*		*74 419*
.764	Madison	39 289	
.765	Onondaga	200 298	
.766	*Syracuse*		*137 249*
.767	Oswego	71 664	
.768	Cayuga	67 106	
.769	Seneca	26 972	
.77	South central counties		
.771	Tompkins	33 647	
.772	Cortland	29 249	
.773	Chenango	35 575	
.774	Otsego	47 216	
.775	Broome	78 809	
.776	*Binghamton*		*48 443*
.777	Tioga	25 624	
.778	Chemung	54 662	
.779	*Elmira*		*37 176*
.78	West central counties		
.781	Schuyler	14 004	
.782	Yates	18 642	
.783	Steuben	83 362	
.784	Alleghany	41 412	
.785	Livingston	38 037	
.786	Ontario	52 286	
.787	Wayne	50 179	
.788	Monroe	283 212	
.789	*Rochester*		*218 149*
.79	Western counties		
.791	Orleans	32 000	
.792	Genesee	37 615	
.793	Wyoming	31 880	
.794	Cattaraugus	65 919	
.795	Chautauqua	105 126	
.796	Erie	528 985	
.797	*Buffalo*		*423 715*
.798	Niagara	92 036	
.799	*Niagara Falls*		*30 445*

974.8 Pennsylvania

Area 45,126 sq. mi. 68 counties
Population 7,665,111 in 1910
Sobriquet: Keystone state Capital: Harrisburg

.81	Southeast counties Philadelphia and Chester group		
		Population in 1910	
.811	Philadelphia (co. and city)	1 549 008	
.812	Montgomery	169 590	
.813	Chester	109 213	
.814	Delaware	117 906	
.815	Lancaster	167 029	
.816	Berks	183 222	
.817	Schuylkill	207 894	
.818	Dauphin	136 152	
.819	Lebanon	59 565	
.82	Eastern counties Bucks group		
.821	Bucks	76 530	
.822	Northampton	127 667	
.823	Wayne	29 236	
.824	Pike	8 033	
.825	Monroe	22 941	
.826	Carbon	52 846	
.827	Lehigh	118 832	
.83	Northeast counties Northumberland group		
.831	Northumberland	111 420	
.832	Luzerne	343 186	
.833	*Wilkesbarre*		*67 105*
.834	Susquehanna	37 746	
.835	Wyoming	15 509	
.836	Lackawanna	259 570	
.837	*Scranton*		*129 867*
.838	Columbia	48 467	
.839	Montour	14 868	
.84	Southeast central counties Cumberland group		
.841	York	136 405	
.842	Adams	34 319	
.843	Cumberland	54 479	
.844	Franklin	59 775	
.845	Perry	24 136	
.846	Mifflin	27 785	
.847	Juniata	15 013	
.848	Union	16 249	
.849	Snyder	16 800	
.85	Northeast central counties East Lycoming group		
.851	Lycoming	80 813	
.852			
.853	Center	43 424	
.854	Clinton	31 545	
.855	Potter	29 729	
.856	Tioga	42 829	
.857	Bradford	54 526	
.858			
.859	Sullivan	11 293	

Pennsylvania

974.86	Northwest central counties	West Lycoming group	
.861	Clearfield	93 768	
.862	Jefferson	63 090	
.863	McKean	47 868	
.864			
.865	Elk	35 871	
.866	Cameron	7 644	
.867	Warren	39 573	
.868	Forest	9 435	
.869	Clarion	36 638	
.87	Southwest central counties	Bedford group	
.871	Bedford	38 879	
.872	Fulton	9 703	
.873	Huntington	38 304	
.874			
.875	Blair	108 858	
.876	*Altoona*		*52 127*
.877	Cambria	166 131	
.878			
.879	Somerset	67 717	
.88	Southwest counties	Westmoreland group	
.881	Westmoreland	231 304	
.882	Washington	143 680	
.883	Greene	28 882	
.884	Fayette	167 449	
.885	Allegheny	1 018 763	
.886	*Pittsburg*		*533 905*
.887	*Allegheny City*		
	Annext to Pittsburg in 1907		
.888	Armstrong	67 880	
.889	Indiana	66 210	
.89	Northwest counties	Allegheny group	
.891	Butler	72 689	
.892	Beaver	78 353	
.893	Lawrence	70 032	
.894			
.895	Mercer	77 699	
.896	Venango	56 359	
.897	Crawford	61 565	
.898			
.899	Erie	115 517	

.9 New Jersey

Area 8224 sq. mi. 21 counties
Population 2,537,167 in 1910
Sobriquet: Jersey Blue state Capital: Trenton

.91	East Jersey	*Population in 1910*	
.92	Northern counties		
.921	Bergen	138 002	
.922			
.923	Passaic	215 902	
.924	*Paterson*		*125 600*
.925			
.926	Hudson	537 231	
.927	*Jersey City*		*267 779*
.928	*Hoboken*		*70 324*

New Jersey

974.93	Central counties		
.931	Essex	512 866	
.932	*Newark*		*347 469*
.933	*Orange*		*29 630*
.934			
.935			
.936	Union	140 197	
.937	*Elizabeth*		*73 409*
.938	*Rahway*		*9 337*
.94	Southern counties		
.941	Middlesex	114 426	
.942	*New Brunswick*		*23 388*
.943			
.944	Somerset	38 820	
.945			
.946	Monmouth	94 734	
.947			
.948	Ocean	21 318	
.95	West Jersey		
.96	Central counties		
.961	Burlington	66 565	
.962			
.963			
.964			
.965	Mercer	125 657	
.966	*Trenton*		*96 815*
.967	*Princeton*		*5 136*
.97	Northern counties		
.971	Hunterdon	33 569	
.972	*Raritan*		*3 672*
.973			
.974	Morris	74 704	
.975			
.976	Sussex	26 781	
.977			
.978	Warren	43 187	
.98	Upper southern counties		
.981	Gloucester	37 368	
.982			
.983			
.984	Atlantic	71 894	
.985			
.986			
.987	Camden	142 029	
.988	*Camden* (city)		*94 538*
.99	Lower southern counties		
.991	Salem	26 999	
.992	*Salem City*		*6 614*
.993			
.994	Cumberland	55 153	
.995	*Bridgeton*		*14 209*
.996			
.997			
.998	Cape May	19 145	

975 Southeastern or South Atlantic

Including general works on the South

.1 Delaware

Area 1965 sq. mi.
Population 202,322 in 1910 3 counties
Sobriquets: Blue Hen state, Diamond state Capital: Dover

			Population in 1910
.11	Newcastle	123 188	
.12	*Wilmington*		*87 411*
.14	Kent	32 721	
.17	Sussex	46 413	

.2 Maryland

Area 12,327 sq. mi.
Population 1,295,346 in 1910 23 counties and Baltimore city
Sobriquet: Old Line state Capital: Annapolis

.21	Eastern Maryland		
.221	Worcester	21 841	
.223	Somerset	26 455	
.225	Wicomico	26 815	
.227	Dorchester	28 669	
.231	Caroline	19 216	
.232	Talbot	19 620	
.234	Queen Anne	16 839	
.236	Kent	16 957	
.238	Cecil	23 759	
.24	Southern Maryland		
.241	St Mary	17 030	
.244	Calvert	10 325	
.247	Charles	16 386	
.251	Prince George	36 147	
.255	Anne Arundel	39 553	
.256	*Annapolis*		*8 609*
.26	*Baltimore* (city)	558 485	
.27	North central		
.271	Baltimore	122 349	
.274	Harford	27 965	
.277	Carroll	33 934	
.281	Howard	16 106	
.284	Montgomery	32 089	
.287	Frederick	52 673	
.288	*Frederick* (city)		*10 411*
.29	Western		
.291	Washington	49 617	
.292	*Hagerstown*		*16 507*
.294	Allegany	62 411	
.295	*Cumberland*		*21 839*
.297	Garrett	20 105	

.3 District of Columbia, Washington (*city*)

Area 70 sq. mi.
Population (Washington) 331,069 in 1910

975.4 West Virginia

19 June 1863 admitted as 35th state Area 24,780 sq. mi.
Population 1,221,119 in 1910 55 counties
Sobriquet: Panhandle state Capital: Charleston

OUTLINE

.41	**Ohio valley**	
.411	Northern Panhandle	
.42	Little Kanawha valley	
.43	Kanawha valley	
.44	Southwestern border counties	
.441	Guyandotte valley	
.446	Tug valley	
.45	**Central plateau**	
.451	Monongahela valley	
.46	Central counties	
.464	Elk valley	
.468	Gauley valley	
.47	New River valley	
.48	**Alleghany crest**	Mountain counties
.481	Cheat valley	
.486	Greenbrier valley	
.49	Eastern Panhandle	Potomac valley

.41 Ohio valley

.411 Northern Panhandle

		Population 1910	
.412	Hancock	10 465	
.413	Brooke	11 068	
.414	Ohio	57 572	
.415	*Wheeling*		*41 641*
.416	Marshall	32 388	
.417			
.418	Wetzel	23 855	
.419	Tyler	16 211	

.42 Little Kanawha valley

.421	Pleasants	8 074	
.422	Wood	38 001	
.423	*Parkersburg*		*17 842*
.424	Ritchie	17 875	
.425			
.426	Wirt	9 047	
.427	Gilmer	11 379	
.428			
.429	Calhoun	11 258	

.43 Kanawha valley

.431	Jackson	20 956	
.432			
.433	Mason	23 019	
.434			
.435	Putnam	18 587	
.436	Roane	21 543	
.437	Kanawha	81 457	
.438	*Charleston*		*22 996*
.439	Boone	10 331	

West Virginia: Ohio valley

975.44	Southwestern border counties		
.441	Guyandotte valley	*Population 1910*	
.442	Cabell	46 685	
.4421	*Huntington*		*31 161*
.443	Lincoln	20 491	
.444	Logan	14 476	
.445	Wyoming	10 392	
.446	Tug valley		
.447	Wayne	24 081	
448	Mingo	19 431	
.449	McDowell	47 856	
.45	**Central plateau**		
.451	Monongahela valley		
.452	Monongalia	24 334	
.453	*Morgantown*		*9 150*
.454	Marion	42 794	
.455	Taylor	16 554	
.456	Doddridge	12 672	
.457	Harrison	48 381	
.458	*Clarksburg*		*9 201*
.459	Barbour	15 858	
.46	Central counties		
.461	Lewis	18 281	
.462	Upshur	16 629	
.464	Elk valley		
.465	Webster	9 680	
.466	Braxton	23 023	
.467	Clay	10 233	
.468	Gauley valley		
.469	Nicholas	17 699	
.47	New River valley		
.471	Fayette	51 903	
.473	Raleigh	25 633	
.474	Mercer	38 371	
.476	Summers	18 420	
.478	Monroe	13 055	
.48	**Alleghany crest**	**Mountain counties**	
.481	Cheat valley	*Population 1910*	
.482	Preston	26 341	
.483	Tucker	18 675	
.484			
.485	Randolph	26 028	
.486	Greenbrier valley		
.487	Pocahontas	14 740	
.488	Greenbrier	24 833	
.489	*White Sulphur Springs*		*338*

West Virginia

975.49	Eastern Panhandle	Potomac valley
.491	Pendleton	9 349
.492	Grant	7 838
.493	Hardy	9 163
.494	Mineral	16 674
.495	Hampshire	11 694
.496	Morgan	7 848
.497	Berkeley	21 999
.498		
.499	Jefferson	15 889

.5 Virginia

17 Ap. 1861 seceded; 26 Jan. 1870 readmitted Area 40,262 sq. mi.
Population 2,061,612 in 1910 100 counties
Sobriquets: Old Dominion, Mother of Presidents Capital: Richmond

.6 North Carolina

20 May 1861 seceded; 25 June 1868 readmitted Area 48,740 sq. mi.
Population 2,206,287 in 1910 98 counties
Sobriquet: Old North state Capital: Raleigh

.7 South Carolina

20 Dec. 1860 seceded; 25 June 1868 readmitted Area 30,495 sq. mi.
Population 1,515,400 in 1910 43 counties
Sobriquet: Palmetto state Capital: Columbia

.8 Georgia

19 Jan. 1861 seceded; 25 June 1868 readmitted Area 58,725 sq. mi.
Population 2,609,121 in 1910 146 counties
Sobriquet: Cracker state Capital: Atlanta

.9 Florida

1512 discoverd by Ponce de Leon; 1565 settled by Spaniards; 22 Feb. 1819 bought of Spain
30 Mar. 1822 organized as territory
3 Mar. 1845 admitted as 27th state
10 Jan. 1861 seceded; 25 June 1868 readmitted Area 54,861 sq. mi.
Population 752,619 in 1910 47 counties
Sobriquets: Everglade, Gulf state Capital: Tallahassee

976 South Central or Gulf

.1 Alabama

1702 settled by French
14 Dec. 1819 admitted as 22d state
11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.
Population 2,138,093 in 1910 67 counties
Sobriquet: Land of Flowers Capital: Montgomery

.2 Mississippi

7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
9 Jan. 1861 seceded; 17 Feb. 1870 readmitted Area 46,362 sq. mi.
Population 1,797,114 in 1910 79 counties
Sobriquet: Bayou state Capital: Jackson

.3 Louisiana

1699 settled by French 30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans
8 Ap. 1812 Louisiana admitted as 18th state
26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.
Population 1,656,388 in 1910 60 parishes
Sobriquets: Pelican state, Creole state Capital: Baton Rouge

976 South Central or Gulf

.4 Texas

20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formd
29 Dec. 1845 annext as 28th state
1 Feb. 1861 seceded; 30 Mar. 1870 readmitted Area 262,398 sq. mi.
Population 3,896,542 in 1910 245 counties
Sobriquet: Lone Star state Capital: Austin

.5

.6 Indian Territory Oklahoma

30 June 1834 assignd to Indians (part of Louisiana purchase)
Area 30,790 sq. mi.
Population 800,000 in 1906
Oklahoma organized as separate territory 2 May 1890
16 Nov. 1907 admitted as 46th state Area 69,414 sq. mi.
Sobriquet: Sooner state Capital: Guthrie

.7 Arkansas

4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
15 June 1836 admitted as 25th state
6 May 1861 seceded; 22 June 1868 readmitted Area 52,525 sq. mi.
Population 1,574,449 in 1910 75 counties
Sobriquet: Bear state Capital: Little Rock

.8 Tennessee

1769 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
1 June 1796 admitted as 16th state
8 June 1861 seceded; 24 July 1866 readmitted Area 41,687 sq. mi.
Population 2,184,789 in 1910 96 counties
Sobriquet: Big Bend state Capital: Nashville

.9 Kentucky

1775 settled by Daniel Boone; 29 May 1790 territory organized
1 June 1792 admitted as 15th state Area 40,181 sq. mi.
Population 2,289,905 in 1910 119 counties
Sobriquet: Blue Grass state Capital: Frankfort

977 North Central or Lake

.1 Ohio

19 Feb 1803 admitted as 17th state Area 40,760 sq. mi.
Population 4,767,121 in 1910 88 counties
Sobriquet: Buckeye state Capital: Columbus

.11 Northwest counties

		Population 1910	
.111	Williams	25 198	
5	Fulton	23 914	
.112	Lucas	192 728	
.113	*Toledo*		*168 497*
.114	Defiance	24 498	
.115	Henry	25 119	
.116	Wood	46 330	
.117	Paulding	22 730	
.118	Putnam	29 972	
.119	Hancock	37 860	
1	*Findlay*		*14 858*

Ohio

977.12	Central north counties	*Population 1910*	
.121	Ottawa	22 360	
4	Sandusky	35 171	
.122	Erie	38 327	
1	*Sandusky* (city)		*19 989*
.123	Lorain	76 037	
1	*Lorain* (city)		*28 883*
.124	Seneca	42 421	
1	*Tiffin*		*11 894*
.125	Huron	34 206	
.126	Wyandot	20 760	
.127	Crawford	34 036	
.128	Richland	47 667	
1	*Mansfield*		*20 768*
.129	Ashland	22 975	
.13	Northeast counties		
.131	Cuyahoga	637 425	
.132	*Cleveland*		*560 663*
.133	Lake	22 927	
6	Geauga	14 670	
.134	Ashtabula	59 547	
1	*Ashtabula* (city)		*18 266*
.135	Medina	23 598	
.136	Summit	108 253	
1	*Akron*		*69 067*
.137	Portage	30 307	
.138	Trumbull	52 766	
.139	Mahoning	116 151	
1	*Youngstown*		*79 066*
.14	Central west counties		
.141	Van Wert	29 119	
5	Mercer	27 536	
.142	Allen	56 580	
1	*Lima*		*30 508*
.143	Auglaize	31 246	
.144	Hardin	30 407	
.145	Shelby	24 663	
.146	Logan	30 084	
5	Champaign	26 351	
.147	Darke	42 933	
.148	Miami	45 047	
1	*Piqua*		*13 388*
.149	Clark	66 435	
1	*Springfield*		*46 921*

Ohio

977.15	Central counties	*Population 1910*	
.151	Marion	33 971	
1	*Marion* (city)		*18 232*
6	Morrow	16 815	
.152	Knox	30 181	
.153	Union	21 871	
5	Delaware	27 182	
.154	Licking	55 590	
1	*Newark*		*25 494*
.155	Madison	19 902	
.156	Franklin	221 567	
.157	*Columbus*		*181 511*
.158	Fairfield	39 201	
.159	Perry	35 396	
.16	Central east counties		
.161	Wayne	38 058	
.162	Stark	122 987	
1	*Canton*		*50 217*
3	*Massillon*		*13 879*
.163	Columbiana	76 619	
1	*East Liverpool*		*20 387*
.164	Holmes	17 909	
.165	Coshocton	30 121	
.166	Tuscarawas	57 035	
.167	Carroll	15 761	
.168	Harrison	19 076	
.169	Jefferson	65 423	
1	*Steubenville*		*22 391*
.17	Southwest counties		
.171	Preble	23 834	
.172	Montgomery	163 763	
.173	*Dayton*		*116 577*
.174	Greene	29 733	
.175	Butler	70 271	
1	*Hamilton* (city)		*35 279*
.176	Warren	24 497	
5	Clinton	23 680	
.177	Hamilton	460 732	
.178	*Cincinnati*		*363 591*
.179	Clermont	29 551	
6	Brown	24 832	

Ohio

977.18	Central south counties		
		Population 1910	
.181	Fayette	21 744	
5	Pickaway	26 158	
.182	Ross	40 069	
1	*Chillicothe*		*14 508*
.183	Hocking	23 650	
7	Vinton	13 096	
.184	Highland	28 711	
7	Pike	15 723	
.185	Jackson	30 791	
.186	Adams	24 755	
.187	Scioto	48 463	
1	*Portsmouth*		*23 481*
.188	Lawrence	39 488	
1	*Ironton*		*13 147*
.189	Gallia	25 745	
.19	Southeast counties		
.191	Muskingum	57 488	
1	*Zanesville*		*28 026*
.192	Guernsey	42 716	
.193	Belmont	76 856	
.194	Morgan	16 097	
.195	Noble	18 601	
.196	Monroe	24 244	
.197	Athens	47 798	
.198	Washington	45 422	
1	*Marietta*		*12 923*
.199	Meigs	25 594	

977.2 Indiana

1809 Indiana territory with present boundaries establisht
11 Dec. 1816, Indiana admitted as 19th state
Population 2,700,876 in 1910 92 counties Area 36,350 sq. mi.
Sobriquet: Hoosier state Capital: Indianapolis

		Population in 1910	
.21	Southeast counties		
.211	Dearborn	21 396	
.212	Ohio	4 329	
	Switzerland	9 914	
.213	Jefferson	20 483	
.214	Ripley	19 452	
.215	Franklin	15 335	
.216	Decatur	18 793	
.217	Jennings	14 203	
.218	Scott	8 323	
	Clark	30 260	
	Jeffersonville		*10 412*
.219	Floyd	30 293	
	New Albany		*20 629*
.22	Central south counties		
.221	Harrison	20 232	
.222	Washington	17 445	
.223	Jackson	24 727	
.224	Bartholomew	24 813	
.225	Brown	7 975	
	Monroe	23 426	
.226	Lawrence	30 625	
.227	Orange	17 192	
.228	Crawford	12 057	
.229	Perry	18 078	
.23	Southwest counties		
.231	Spencer	20 676	
.232	Warrick	21 911	
.233	Vanderburg	77 438	
	Evansville		*69 647*
.234	Posey	21 670	
.235	Gibson	30 137	
.236	Pike	19 684	
.237	Dubois	19 843	
.238	Martin	12 950	
	Daviess	27 747	
.239	Knox	39 183	
.24	West central counties		
.241	Sullivan	32 439	
.242	Greene	36 873	
.243	Owen	14 053	
.244	Clay	32 535	
.245	Vigo	87 930	
	Terre Haute		*58 157*
.246	Vermilion	18 865	
	Parke	22 214	
.247	Fountain	20 439	
.248	Montgomery	29 296	
.249	Putnam	20 520	

Indiana

977.25	Central counties	*Population 1910*	
.251	Morgan	21 182	
	Johnson	20 394	
.252	Marion	263 661	
	Indianapolis		*233 650*
.253	Hendricks	20 840	
.254	Boone	24 673	
.255	Clinton	26 674	
	Tipton	17 459	
.256	Hamilton	27 026	
.257	Madison	65 224	
	Anderson		*22 476*
.258	Hancock	19 030	
.259	Shelby	26 802	
.26	East central counties		
.261	Rush	19 349	
.262	Fayette	14 415	
	Union	6 260	
.263	Wayne	43 757	
	Richmond		*22 324*
.264	Henry	29 758	
.265	Delaware	51 414	
	Muncie		*24 005*
.266	Randolph	29 013	
.267	Jay	24 961	
.268	Blackford	15 820	
.269	Grant	51 426	
.27	Northeast counties		
.271	Huntington	28 982	
.272	Wells	22 418	
.273	Adams	21 840	
.274	Allen	93 386	
	Fort Wayne		*63 933*
.275	Whitley	16 892	
.276	Noble	24 009	
.277	Dekalb	25 054	
.278	Steuben	14 274	
.279	Lagrange	15 148	
.28	Central north counties		
.281	Elkhart	49 008	
.282	Kosciusko	27 936	
.283	Wabash	26 926	
.284	Miami	29 350	
.285	Howard	33 177	
.286	Cass	36 368	
	Logansport		*19 050*
.287	Fulton	16 879	
.288	Marshall	24 175	
.289	St Joseph	84 312	
	South Bend		*53 684*

Indiana

977.29 Northwest counties

		Population 1910	
.291	Laporte	45 797	
	Michigan City		*19 027*
.292	Starke	10 567	
	Pulaski	13 312	
.293	White	17 602	
.294	Carroll	17 970	
.295	Tippecanoe	40 063	
	Lafayette		*20 081*
.296	Warren	10 899	
.297	Benton	12 688	
	Newton	10 504	
	Jasper	13 044	
.298	Porter	20 540	
.299	Lake	82 864	

.3 Illinois

1809 Illinois territory formd 3 Dec. 1818 Illinois admitted
Area 56,043 sq. mi. Population 5,638,591 in 1910 102 counties
Sobriquet: Prairie state Capital: Springfield

		Population 1910	
.31	Cook	2 405 233	
	Chicago		*2 135 283*
.32	Northeast counties		
.321	Lake	55 058	
.322	McHenry	32 509	
.323	Kane	91 862	
	Aurora		*29 807*
	Elgin		*25 976*
.324	Dupage	33 432	
.325	Will	84 371	
	Joliet		*34 670*
.326	Kendall	10 777	
	Grundy	24 161	
.327	Lasalle	90 132	
	Streator		*14 253*
.328	Dekalb	33 457	
.329	Boone	15 481	
.33	Northwest counties		
.331	Winnebago	63 153	
	Rockford		*45 401*
.332	Ogle	27 864	
.333	Stephenson	36 821	
	Freeport		*17 567*
.334	Jo Daviess	22 657	
	Carroll	18 035	
.335	Whiteside	34 507	
.336	Lee	27 750	
.337	Bureau	43 975	
	Putnam	7 561	
.338	Henry	41 736	
.339	Rock Island	70 404	
	Rock Island (city)		*24 335*
	Moline		*24 199*
	Mercer	19 723	

Illinois

977.34	West central counties	*Population 1910*	
.341	Henderson	9 724	
	Warren	23 313	
.342	McDonough	26 887	
.343	Hancock	30 638	
.344	Adams	64 588	
	Quincy		*36 587*
.345	Pike	28 622	
	Scott	10 067	
.346	Morgan	34 420	
	Jacksonville		*15 329*
	Cass	17 372	
.347	Brown	10 397	
	Schuyler	14 852	
.348	Fulton	49 549	
.349	Knox	46 159	
.35	Central counties		
.351	Stark	10 098	
	Marshall	15 679	
.352	Peoria	100 255	
	Peoria (city)		*66 950*
.353	Woodford	20 506	
.354	Tazewell	34 027	
.355	Mason	17 377	
	Menard	12 796	
.356	Sangamon	91 024	
	Springfield		*51 678*
.357	Logan	30 216	
.358	Macon	54 186	
	Decatur		*31 140*
	Dewitt	18 906	
.359	McLean	68 008	
	Bloomington		*25 768*
.36	East central counties		
.361	Livingston	40 465	
.362	Ford	17 096	
.363	Kankakee	40 752	
.364	Iroquois	35 543	
.365	Vermilion	77 996	
	Danville		*27 871*
.366	Champaign	51 829	
.367	Piatt	16 376	
	Moultrie	14 630	
.368	Douglas	19 591	
.369	Edgar	27 336	

Illinois

977.37	Southeast counties	*Population 1910*	
.371	Clark	23 517	
.372	Coles	34 517	
.373	Cumberland	14 281	
.374	Jasper	18 157	
.375	Crawford	26 281	
.376	Lawrence	22 661	
.377	Richland	15 970	
.378	Wabash	14 913	
.379	1 Edwards	10 049	
	2 Wayne	25 697	
	3 Jefferson	29 111	
	4 Marion	35 094	
	5 Clay	18 661	
	6 Effingham	20 055	
	7 Fayette	28 075	
	8 Shelby	31 693	
.38	Southwest counties		
.381	Christian	34 594	
.382	Montgomery	35 311	
.383	Macoupin	50 685	
.384	Greene	22 363	
.385	Calhoun	8 610	
	Jersey	13 954	
.386	Madison	89 847	
	Alton		*17 528*
.387	Bond	17 075	
	Clinton	22 832	
.388	Washington	18 759	
.389	St Clair	119 870	
	Belleville		*21 122*
	East St Louis		*58 547*
.39	Southern counties		
.391	Monroe	13 508	
.392	Randolph	29 120	
.393	Perry	22 088	
.394	Franklin	25 943	
.395	Hamilton	18 227	
.396	White	23 052	
.397	Gallatin	14 628	
.398	Hardin	7 015	
.399	1 Pope	11 215	
	2 Saline	30 204	
	3 Williamson	45 098	
	4 Jackson	35 143	
	5 Union	21 856	
	6 Johnson	14 331	
	7 Massac	14 200	
	8 Pulaski	15 650	
	9 Alexander	22 741	
	Cairo		*14 540*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi.
Population 2,810,173 in 1910 83 counties
Sobriquets: Wolverine, Lake state Capital: Lansing

Lower peninsula

.41	Southwest counties	*Population 1910*	
.411	Berrien	53 622	
.412	Cass	20 624	
.413	Van Buren	33 185	
.414	Allegan	39 819	
.415	Ottawa	45 301	
.416	Barry	22 633	
.417	Kalamazoo	60 427	
.418	*Kalamazoo* (city)		*39 437*
.419	St Joseph	25 499	
.42	Central south counties		
.421	Branch	25 605	
.422	Calhoun	56 638	
	Battle Creek		*25 267*
423	Eaton	30 490	
424	Clinton	23 129	
.425	Shiawassee	33 246	
.426	Ingham	53 310	
.427	*Lansing*		*31 229*
.428	Jackson	53 426	
	Jackson (city)		*31 433*
.429	Hillsdale	29 673	
.43	Southeast counties		
.431	Lenawee	47 907	
.432	Monroe	32 917	
.433	Wayne	531 591	
.434	*Detroit*		*465 766*
.435	Washtenaw	44 714	
.436	Livingston	17 736	
.437	Genesee	64 555	
.438	Oakland	49 576	
.439	Macomb	32 606	
.44	Southeast central counties		
.441	St Clair	52 341	
	Port Huron		*18 863*
.442	Lapeer	26 033	
.443	Sanilac	33 930	
.444	Huron	34 758	
.445	Tuscola	34 913	
.446	Saginaw	89 290	
	Saginaw (city)		*50 510*
.447	Bay	68 238	
	Bay City		*45 166*
	West Bay City		
	Annext to Bay City in April 1905		
.448	Midland	14 005	
.449	Gratiot	28 820	

Michigan

977.45 Southwest central counties

		Population 1910	
.451	Isabella	23 029	
.452	Mecosta	19 466	
.453	Montcalm	32 069	
.454	Ionia	33 550	
.455	Kent	159 145	
.456	*Grand Rapids*		*112 571*
.457	Muskegon	40 577	
	Muskegon (city)		*24 062*
.458	Newaygo	19 220	
.459	Oceana	18 379	
.46	Northwest central counties		
.461	Mason	21 832	
.462	Manistee	26 688	
	Manistee (city)		*12 381*
.463	Benzie	10 638	
	Leelanau	10 608	
.464	Grand Traverse	23 784	
.465	Kalkaska	8 097	
.466	Missaukee	10 606	
.467	Wexford	20 769	
.468	Lake	4 939	
.469	Osceola	17 889	
.47	Northeast central counties		
.471	Clare	9 240	
.472	Gladwin	8 413	
.473	Arenac	9 640	
.474	Iosco	9 753	
.475	Ogemaw	8 907	
.476	Roscommon	2 274	
.477	Crawford	3 934	
.478	Oscoda	2 027	
.479	Alcona	5 703	
.48	Northern counties		
.481	Alpena	19 965	
.482	Presque Isle	11 249	
.483	Montmorency	3 755	
.484	Otsego	6 552	
.485	Antrim	15 692	
.486	Charlevoix	19 157	
.487	Cheboygan	17 872	
.488	Emmet	18 561	
489	Manitou		

Annext to Charlevoix and Leelanau in 1896

Michigan

977.49	**Upper peninsula**	*Population 1910*	
.491	Chippewa	24 472	
.492	Mackinac	9 249	
	Luce	4 004	
.493	Alger	7 675	
	Schoolcraft	8 681	
.494	Delta	30 108	
.495	Menominee	25 648	
	Menominee (city)		*10 507*
	Dickinson	20 524	
.496	Marquette	46 739	
	Ishpeming		*12 448*
.497	Baraga	6 127	
	Iron	15 164	
.498	Gogebic	23 333	
	Ontonagon	8 650	
.499	Houghton	88 098	
	Keweenaw	7 156	
	Isle Royale		

Annext to Keweenaw in 1897

.5 Wisconsin

1836 organized as territory
29 May 1848, admitted as 30th state Area 56,040 sq. mi.
Population 2,333,860 in 1910 71 counties
Sobriquet: Badger state Capital: Madison

.51	Northwest counties	*Population 1910*	
.511	Douglas	47 422	
.512	*Superior*		*40 384*
.513	Bayfield	15 987	
.514	Burnett	9 026	
.515	Washburn	8 196	
.516	Sawyer	6 227	
.517	Polk	21 367	
.518	Barron	29 114	
.519	Rusk (formerly Gates)	11 160	

Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901

.52	Central north counties		
.521	Ashland	21 965	
	Ashland (city)		*11 594*
.522	Iron	8 306	
.523	Vilas	6 019	
.524	Price	13 795	
.525	Oneida	11 433	
.526	Taylor	13 641	
.527	Lincoln	19 064	
.528	Clark	30 074	
.529	Marathon	55 054	
	Wausau		*16 560*

Wisconsin

977.53	Northeast counties	*Population 1910*	
.531	Forest	6 782	
.532	Florence	3 381	
.533	Marinette	33 812	
534	*Marinette* (city)		*14 610*
.535	Langlade	17 062	
.536	Shawano	31 884	
.537	Oconto	25 657	
.538	Waupaca	32 782	
.539	Outagamie	49 102	
	Appleton		*16 773*
.54	Central west counties		
.541	St Croix	25 910	
.542	Pierce	22 079	
.543	Dunn	25 260	
.544	Chippewa	32 103	
.545	Eau Claire	32 721	
.546	*Eau Claire* (city)		*18 310*
.547	Pepin	7 577	
.548	Buffalo	16 006	
.549	Trempealeau	22 928	
.55	Central counties		
.551	Jackson	17 075	
.552	Wood	30 583	
.553	Portage	30 945	
.554	Monroe	28 881	
.555	Juneau	19 569	
.556	Adams	8 604	
.557	Waushara	18 886	
.558	Marquette	10 741	
.559	Green Lake	15 491	
.56	Central east counties		
.561	Brown	54 098	
	Green Bay (city)		*25 236*
.562	Kewaunee	16 784	
.563	Door	18 711	
.564	Winnebago	62 116	
.565	*Oshkosh*		*33 062*
.566	Calumet	16 701	
.567	Manitowoc	44 978	
	Manitowoc (city)		*13 027*
.568	Fond du Lac	51 610	
	Fond du Lac (city)		*18 797*
.569	Sheboygan	54 888	
	Sheboygan (city)		*26 398*

Wisconsin

977.57	Southwest counties	*Population 1910*	
.571	La Crosse	43 996	
.572	*La Crosse* (city)		*30 417*
.573	Vernon	28 116	
.574	Crawford	16 288	
.575	Richland	18 809	
.576	Sauk	32 869	
.577	Grant	39 007	
.578	Iowa	22 497	
.579	La Fayette	20 075	
.58	Central south counties		
.581	Columbia	31 120	
.582	Dodge	47 436	
.583	Dane	77 435	
.584	*Madison*		*25 531*
.585	Jefferson	34 306	
.586	Green	21 641	
.587	Rock	55 538	
	Janesville		*13 894*
.588	*Beloit*		*15 125*
.589	Walworth	29 614	
.59	Southeast counties		
.591	Washington	23 784	
.592	Ozaukee	17 123	
.593	Waukesha	37 100	
.594	Milwaukee	433 187	
.595	*Milwaukee* (city)		*373 857*
.596	Racine	57 424	
.597	*Racine* (city)		*38 002*
.598	Kenosha	32 929	
.599	*Kenosha* (city)		*21 371*

.6 Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase
11 May 1858, east part admitted as 32d state; west part merged in Dakota territory 1861
Population 2,075,708 in 1910 Area 80,858 sq. mi. 86 counties
Sobriquet: Gofer state Capital: St Paul

.7 Iowa

12 June 1838, organized as a territory
28 Dec. 1846, admitted as 29th state Area 56,025 sq. mi.
Population 2,224,771 in 1910 99 counties
Sobriquet: Hawkeye state Capital: Des Moines

Iowa

977.71	Northwest counties	*Population 1910*	
.711	Lyon	14 624	
6	Osceola	8 956	
.712	Dickinson	8 137	
5	Emmet	9 816	
.713	Sioux	25 248	
.714	O'Brien	17 262	
.715	Clay	12 766	
5	Palo Alto	13 845	
.716	Plymouth	23 129	
.717	Cherokee	16 741	
.718	Buena Vista	15 981	
.719	Pocahontas	14 808	
.72	Central north counties		
.721	Kossuth	21 971	
.722	Winnebago	11 914	
.723	Worth	9 950	
4	Mitchell	13 435	
.724	Hancock	12 731	
.725	Cerro Gordo	25 011	
.726	Floyd	17 119	
.727	Humboldt	12 182	
4	Wright	17 951	
.728	Franklin	14 780	
.729	Butler	17 119	
.73	Northeast counties		
.731	Howard	12 920	
5	Chickasaw	15 375	
.732	Winneshiek	21 729	
.733	Allamakee	17 328	
.734	Bremer	15 843	
.735	Fayette	27 919	
.736	Clayton	25 576	
.737	Blackhawk	44 865	
1	*Waterloo*		*26 693*
.738	Buchanan	19 748	
5	Delaware	17 888	
.739	Dubuque	57 450	
1	*Dubuque* (city)		*38 494*
.74	Central west counties		
.741	Woodbury	67 616	
1	*Sioux City*		*47 828*
.742	Ida	11 296	
4	Sac	16 555	
.743	Calhoun	17 090	
.744	Monona	16 633	
.745	Crawford	20 041	
.746	Carroll	20 117	
6	Greene	16 023	
.747	Harrison	23 162	
.748	Shelby	16 552	
6	Audubon	12 671	
.749	Guthrie	17 374	

Iowa

977.75	Central counties	*Population 1910*	
.751	Webster	34 629	
1	*Fort Dodge*		*13 374*
.752	Hamilton	19 242	
.753	Hardin	20 921	
7	Grundy	13 574	
.754	Boone	27 626	
6	Story	24 083	
755	Marshall	30 279	
1	*Marshalltown*		*13 374*
.756	Tama	22 156	
.757	Dallas	23 628	
.758	Polk	110 438	
1	*Des Moines*		*86 368*
.759	Jasper	27 034	
6	Poweshiek	19 589	
.76	Central east counties		
.761	Benton	23 156	
.762	Linn	60 720	
1	*Cedar Rapids*		*32 811*
.763	Jones	19 050	
.764	Jackson	21 258	
.765	Iowa	18 409	
5	Johnson	25 914	
.766	Cedar	17 765	
.767	Clinton	45 394	
1	*Clinton* (city)		*25 577*
.768	Muscatine	29 505	
1	*Muscatine* (city)		*16 178*
.769	Scott	60 000	
1	*Davenport*		*43 028*
.77	Southwest counties		
.771	Pottawattamie	55 832	
1	*Council Bluffs*		*29 292*
.772	Cass	19 047	
.773	Adair	14 420	
.774	Mills	15 811	
.775	Montgomery	16 604	
.776	Adams	10 998	
.777	Fremont	15 623	
.778	Page	24 002	
.779	Taylor	16 312	
.78	Central south counties		
.781	Madison	15 621	
.782	Warren	18 194	
.783	Marion	22 995	
.784	Mahaska	29 860	
.785	Union	16 616	
6	Clarke	10 736	
.786	Lucas	13 462	
5	Monroe	25 429	
787	Ringgold	12 904	
5	Decatur	16 347	
.788	Wayne	16 189	
789	Appanoose	28 701	

Iowa

977.79	Southeast counties	*Population 1910*	
.791	Keokuk	21 160	
.792	Washington	19 925	
6	Louisa	12 855	
.793	Wapello	37 743	
1	*Ottumwa*		*22 012*
.794	Jefferson	15 951	
.795	Henry	18 640	
.796	Des Moines	36 145	
1	*Burlington*		*24 324*
.797	Davis	13 315	
.798	Van Buren	15 020	
.799	Lee	36 702	
1	*Keokuk* (city		*14 008*

.8 Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state
Population 3,293,335 in 1910 114 counties and St Louis
Sobriquets: Bullion state, Iron state Capital: Jefferson Area 69,415 sq. mi.

.81	Northwest counties	*Population in 1910*	
.811	Atchison	13 604	
5	Holt	14 539	
.812	Nodaway	28 833	
6	Andrew	15 282	
.813	Buchanan	93 020	
1	*St Joseph*		*77 403*
5	Platte	14 429	
.814	Worth	8 007	
5	Gentry	16 820	
.815	Dekalb	12 531	
5	Clinton	15 297	
.816	Clay	20 302	
.817	Harrison	20 466	
.818	Daviess	17 605	
5	Caldwell	14 605	
.819	Ray	21 451	
.82	Central north counties		
.821	Mercer	12 335	
5	Grundy	16 744	
.822	Livingston	19 453	
5	Carroll	23 098	
.823	Putnam	14 308	
5	Sullivan	18 598	
.824	Linn	25 253	
.825	Chariton	23 503	
.826	Schuyler	9 062	
4	Adair	22 700	
.827	Macon	30 868	
.828	Randolph	26 182	
1	*Moberly*		*10 923*
5	Howard	15 653	
.829	Boone	30 533	

Missouri

977 83	Northeast counties	*Population 1910*	
.831	Scotland	11 869	
5	Knox	12 403	
.832	Shelby	14 864	
5	Monroe	18 304	
.833	Audrain	21 687	
5	Callaway	24 400	
.834	Clark	12 811	
5	Lewis	15 514	
.835	Marion	30 572	
1	*Hannibal*		*18 341*
5	Ralls	12 913	
.836	Pike	22 556	
.837	Lincoln	17 033	
.838	Montgomery	15 604	
6	Warren	9 123	
.839	St Charles	24 695	
.84	Central west counties		
.841	Jackson	283 522	
1	*Kansas City*		*248 381*
.842	Cass	22 973	
.843	Bates	25 869	
.844	Vernon	28 827	
.845	Lafayette	30 154	
5	Johnson	26 297	
.846	Henry	27 242	
6	St Clair	16 412	
.847	Saline	29 448	
.848	Pettis	33 913	
1	*Sedalia*		*17 822*
.849	Benton	14 881	
6	Hickory	8 741	
.85	Central counties		
.851	Cooper	20 311	
.852	Moniteau	14 375	
.853	Morgan	12 863	
.854	Camden	11 582	
.855	Cole	21 957	
1	*Jefferson City*		*11 850*
.856	Miller	16 717	
.857	Pulaski	11 438	
.858	Osage	14 283	
.859	Maries	10 088	
4	Phelps	15 796	
.86	Central east counties		
.861	Gasconade	12 847	
.862	Crawford	13 576	
.863	Franklin	29 830	
.864	Washington	13 378	
.865	St Louis	82 417	
.866	*St Louis* (city)	687 029	
.867	Jefferson	27 878	
.868	St François	35 738	
.869	Ste Genevieve	10 607	
4	Perry	14 898	

Missouri

977.87	Southwest counties		
.871	Barton	16 747	
.872	Jasper	89 673	
1	*Joplin*		*32 073*
2	*Webb City*		*11 817*
.873	Newton	27 136	
6	McDonald	13 539	
.874	Cedar	16 080	
5	Dade	15 613	
.875	Lawrence	26 583	
.876	Barry	23 869	
.877	Polk	21 561	
.878	Greene	63 831	
1	*Springfield*		*35 201*
.879	Christian	15 832	
4	Stone	11 559	
7	Taney	9 134	
.88	Central south counties		
.881	Dallas	13 181	
5	Laclede	17 363	
.882	Webster	17 377	
5	Wright	18 315	
.883	Douglas	16 664	
5	Ozark	11 926	
.884	Texas	21 458	
.885	Howell	21 065	
.886	Dent	13 245	
.887	Shannon	11 443	
5	Oregon	14 681	
.888	Iron	8 563	
5	Reynolds	9 592	
.889	Carter	5 504	
4	Ripley	13 099	
.89	Southeast counties		
.891	Madison	11 273	
.892	Wayne	15 181	
.893	Butler	20 624	
.894	Bollinger	14 576	
.895	Stoddard	27 807	
.896	Cape Girardeau	27 621	
.897	Scott	22 372	
.898	Mississippi	14 557	
5	New Madrid	19 488	
.899	Dunklin	30 328	
6	Pemiscot	19 559	

978 Western or Mountain

Including general works on 'the West'

.1 Kansas

1541 explored by Spanish
30 May 1854 organized as separate territory, after successiv inclusion in Louisiana and Missouri territories 29 Jan. 1861 admitted as 34th state
Area 81,774 sq. mi. Population 1,690,949 in 1910 105 counties
Sobriquet: Garden of the west Capital: Topeka

.2 Nebraska

30 May 1854 territory organized out of Missouri territory
1 Mar. 1867 admitted as 37th state
Area 76,808 sq. mi. Population 1,192,214 in 1910 92 counties
Sobriquet: Blackwater state Capital: Lincoln

.3 South Dakota

Including works on Dakota as a whole

2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,868 sq. mi. Population 583,888 in 1910 68 counties
Sobriquet: Coyote state Capital: Pierre

.4 North Dakota

2 Nov. 1889 admitted as 39th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq. mi. Population 577,056 in 1910 49 counties
Sobriquet: Flickertail state Capital: Bismarck

.5

.6 Montana

26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state
Area 146,201 sq. mi. Population 376,053 in 1910 28 counties
Sobriquet: Treasure state Capital: Helena

.7 Wyoming

25 July 1868 Wyoming territory organized
10 July 1890 admitted as 44th state
Area 97,594 sq. mi. Population 145,965 in 1910 15 counties
Sobriquet: Stub Toe state Capital: Cheyenne

.8 Colorado

28 Feb. 1861 Colorado territory organized
1 Aug. 1876 admitted as 38th state
Area 103,658 sq. mi. Population 799,024 in 1910 60 counties
Sobriquet: Centennial state Capital: Denver

.9 New Mexico

2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state Area 122,503 sq. mi.
Population 327,301 in 1910 26 counties Capital: Santa Fé

979 Pacific

.1 Arizona

2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase 1853
24 Feb. 1863 territory organized 14 Feb. 1912 admitted as 48th state
Area 113,810 sq. mi. Population 204,354 in 1910 13 counties
Sobriquets: Valentine, Hassayampa state Capital: Phoenix

.2 Utah

2 Feb. 1848 ceded by Mexico 9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state
Area 82,184 sq. mi. Population 373,351 in 1910 27 counties
Sobriquet: Salt Lake state Capital: Salt Lake City

.3 Nevada

2 Mar. 1861 territory organized 31 Oct. 1864 admitted as 36th state
Area 109,821 sq. mi. Population 81,875 in 1910 15 counties
Sobriquet: Silver state Capital: Carson

979.4 California

Admitted 9 Sep. 1850, as 31st state Area 155,652 sq. mi.
Population 2,377,549 in 1910 58 counties
Sobriquet: Golden state Capital: Sacramento

Northern or Superior California

Use 979.41 as a general number, including .41–.43

.41	Coast range counties, north	*Population in 1910*	
.411	Del Norte	2 417	
.412	Humboldt	33 857	
.414	Trinity	3 301	
.415	Mendocino	23 929	
.417	Lake	5 526	
.418	Sonoma	48 394	
.419	Napa	19 800	
.42	Northeast counties		
.421	Siskiyou	18 801	
.423	Modoc	6 191	
.424	Shasta	18 920	
.426	Lassen	4 802	
.427	Tehama	11 401	
.429	Plumas	5 259	
.43	North central counties		
.431	Glenn	7 172	
.432	Butte	27 301	
.433	Colusa	7 732	
.434	Sutter	6 328	
.435	Yuba	10 042	
.426	Sierra	4 098	
.437	Nevada	14 955	
.438	Placer	18 237	

Central California

Use 979.44 as a general number, including .44–.48

.44	East central counties		
.441	El Dorado	7 492	
.442	Amador	9 086	
.443	Alpine	309	
.444	Calaveras	9 171	
.445	Tuolumne	9 979	
.446	Mariposa	3 956	
.447	*Yosemite*		
.448	Mono	2 042	
.45	Central counties		
.451	Yolo	13 926	
.452	Solano	27 559	
.453	Sacramento	67 806	
.454	*Sacramento* (city)		*44 696*
.455	San Joaquin	50 731	
.456	*Stockton*		*23 253*
.457	Stanislaus	22 522	
.458	Merced	15 148	

California

979.46	West central counties San Francisco group		
.461	San Francisco co. and city	416 912	
.462	Marin	25 144	
.463	Contra Costa	31 674	
.465	Alameda	246 131	
	Alameda (city)		*23 383*
.466	*Oakland*		*150 174*
.467	*Berkeley*		*40 434*
.469	San Mateo	26 585	
.47	Coast range counties, south		
.471	Santa Cruz	26 140	
.473	Santa Clara	83 539	
.474	*San José*		*28 946*
.475	San Benito	8 041	
.476	Monterey	24 146	
.478	San Luis Obispo	19 383	
.48	South central counties		
.481	Madera	8 368	
.482	Fresno	75 657	
.483	*Fresno* (city)		*24 892*
.485	Kings	16 230	
.486	Tulare	35 440	
.487	Inyo	6 974	
.488	Kern	37 715	
	Southern California		
.49	Southern counties		
.491	Santa Barbara	27 738	
	Ilands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara		
.492	Ventura	18 347	
	Ilands: Anacapa, San Nicholas		
.493	Los Angeles	504 131	
	Ilands: Santa Catalina, San Clemente		
.494	*Los Angeles* (city)		*319 198*
.495	San Bernardino	56 706	
.496	Orange	34 436	
.497	Riverside	34 696	
.498	San Diego	61 665	
	San Diego (city)		*39 578*
.499	Imperial	13 591	

979.5 Pacific States

Oregon

14 Aug. 1848 territory organized 14 Feb. 1859 admitted as 33d state
Area 96,607 sq. mi. Population 672,765 in 1910 34 counties
Sobriquet: Beaver state Capital: Salem

.6 Idaho

3 Mar. 1863 territory organized. Part of Louisiana purchase. First included in Oregon, later in Washington territory
3 July 1890 admitted as 43d state
Area 83,354 sq. mi. Population 325,594 in 1910 23 counties
Sobriquet: Gem state Capital: Boise

.7 Washington

2 Mar. 1853 territory organized; earlier, part of Oregon territory
11 Nov. 1889 admitted as 42d state
Area 66,836 sq. mi. Population 1,141,990 in 1910 38 counties
Sobriquet: Evergreen state Capital: Olympia

.8 Alaska

30 Mar. 1867 ceded by Russia 24 Aug. 1912 organized as territory
Area 590,884 sq. mi. Population 64,356 in 1910 Capital: Sitka

980 **South America**

981 Brazil

982 Argentina Patagonia

983 Chile

984 Bolivia

985 Peru

986 U. S. of Colombia Panama New Granada Ecuador

987 Venezuela

988 Guiana

989 Paraguay Uruguay

990 **Oceanica Polar regions**

991 Malaysia

.1 Borneo .2 Celebes .3 Moluccas or Spice ilands .4 Phillippine ilands

992 Sunda

.1 Sumatra .2 Java

993 Australasia

.1 New Zealand .2 New Caledonia .3 Loyalty ilands .4 New Hebrides .5 Solomon ilands .6 New Britain, New Ireland .7 Admiralty ilands

994 Australia

.1 Western Australia .2 South Australia .3 Queensland .4 New South Wales .5 Victoria .6 Tasmania

995 New Guinea

996 Polynesia

.1 Fiji, Friendly and Navigator ilands .2 Society, Austral and Cook's ilands .3 Marquesas ilands and Low Archipelago .4 Minor Polynesian ilands .5 **Micronesia** .6 Caroline and Pelew ilands .7 Ladrone ilands .8 Marshall and Gilbert ilands .9 Hawaii

997 Isolated ilands

998 Arctic regions

General number for Polar regions

999 Antarctic regions

RELATIV SUBJECT INDEX

INDEX ABBREVIATIONS

Cutter forename abbreviations Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna
A: Augustus
B.. Beatrice
B: Benjamin
C: Charles
C.. Charlotte
D: David
D.. Delia
E: Edward
E.. Elizabeth
F.. Fanny
F: Frederick
G: George
G.. Grace
H.. Helen
H: Henry
I: Isaac
I.. Isabella
J.. Jane
J: John
K: Karl
K.. Kate
L: Lewis
L.. Louisa
M: Mark
M.. Mary
N.. Nancy
N: Nicholas
O.. Olivia
O: Otto
P.. Pauline
P: Peter
R.. Rebecca
R: Richard
S: Samuel
S.. Sarah
T.. Theresa
T: Thomas
U: Ulrich
U.. Ursula
V: Victor
V.. Victoria
W.. Wilhelmina
W: William
Z.. Zenobia

Other abbreviations exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant
anal.	analysis
anat.	anatomy
anc.	ancient
antiq.	antiquities
arch.	archeology
	architecture
ass'n	association
astr.	astronomy
bibliog.	bibliografic
biog.	biografy
bldg	bilding
bus.	business
ch.	church
chem.	chemic
	chemistry
chr.	christian
civ.	civil
co.	county
cont.	contagious
cost.	costume
crim.	criminal
Dan.	Danish
dec.	decoration
descr.	description
	descriptiv
diff.	different
dis.	diseases
discov.	discovery
doc.	doctrin -al
dom.	domestic
dram.	drama
dwel.	dwelling
eccles.	ecclesiastic
	ecclesiology
econ.	economic -y
elec.	electric -ity
eng.	engineering
eth.	ethical, ethics
exped.	expedition
fest.	festival
fic. *or* fict.	fiction
gard.	gardening
gen.	general
geod.	geodesy
geog.	geografic
geol.	geology
geom.	geometry
gov. *or* gov't	government
histol.	histology
hist.	historic -y
hum.	humor
hyg.	hygiene
instr.	instrument
lang.	language
lib.	library -ian
lig.	ligament
lit.	literature
loc.	local -ity
mach.	machine -ry
manuf.	manufactures
mech.	mechanic
ment.	mental
meth.	methods
mfg	manufacturing
mil.	military
min.	mineral
	mining
misc.	miscellany
mon.	monastic
nat.	natural, nature
nonchr.	nonchristian
ord.	order, orders
ordn.	ordnance
org.	organ -ic
orig.	origin -al
phil.	philosofer -y
philol.	philology
phot.	photografic -y
phys.	physical
	physiologic -y
poet.	poetry
pol. *or* polit.	political *or* politics
prac.	practical
pres.	presidency
	president
prob.	probabilities
prot.	protection
psych.	psychologic -y
pub.	public
reg.	region
relig.	religion, -ous
rit.	ritual
sat.	satire
sci.	science, -tific
serm.	sermons
soc.	social, society
stat.	statutes
subj.	subject
tech.	technology
theol.	theologic -y
theor.	theoretic
therap.	therapeutics
wks	works

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

Relativ Subject Index

A B C telegraf elec. eng. 621.38222
A L A publishing board 020.627
A là carte table system 642.53
Aagesen, Svend Dan. misc. 839.8812
Abaca agriculture 633.571
Abacus arithmetic 511.2
Abandond children, *see* Dependents
Abattoirs
architecture 725.28
public helth 614.741
sanitary engineering 628.549
Abbassides history 956
Abbéville, treaty inter. law 341.2
Abbey schools education 377.3
Abbeys architecture 726.7
history 271
Abbot of misrule customs 394
Abbots monastic orders 271
Abbreviations
English paleografy 421.8
Greek " 481.8
Latin " 471.8
[3] other languages
literary methods 029.4
shorthand 653.1
Abchasian language 494
Abdication
absolute monarchy 321.6
constitutional history 342
monarchy 321.7
Abdomen **anatomy 611.95**
surgery 617.55
Abdominal
aorta anatomy 611.136
esophagus " 611.3293
lymph glands " 611.465
lymphatics " 611.4215
muscles " 611.736
oblique muscles " 611.7363
sympath. ganglions " 611.899
physiol. 612.893
nervs anat. 611.8393
Abdomino-aortic
glands anatomy 611.4652
Abducent
nerv anatomy 611.8316
eye 612.8466
physiology 612.8196
nucleus anatomy 611.8175
Abduction criminal law 343
Abductors anatomy
digiti quinti brevis 611.73776
hallucis 611.7389
of thum, long 611.73767
short 611.73773
Abecedarians christ. sect 284.3
Abelard medieval philos. 189.4
Abelian functions 517.36
[1]Aberdeen, Scot. history 941.25
travels 914.125
Angus cattle 636.2231
Aberration
astronomy corrections 522.94
chromatic optics 535.4
mental disease 616.8
hospitals 362.2
insanity 132
puerperal 618.76
spheric optics 535.3
Abeyance 347.6
Ability, human doctrin 233 4
Abiogenesis
animals 591.161
biology 576.1
plants 581.161
Abipones history 982
[1]Abitibi co. Que. history 971.412
Abjuration
oath of relig. hist. 283.42
Ablation
of brain physiology 612.8226
liver " 612.359
stomach " 612.3235
Ablativ Latin syntax 475.5
Ablaut Eng. orthografy 421.2
Ger. " 431.2
[3] other languages
Ablution Anglican ritual 264.035
Abnormal
children child study 136.76
education 371.9
development of embryo 617.3
labor obstetrics 618.5
Abo, peace of treaties 341.2
Abode of animals
geografic distribution 591.9
habits 591.52

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Abolition
movement U. S. hist. 973.7114
of legis. bodies pol. sci. 328.394
slavery " " 326.8
U. S. hist. 973.714
Abolitionists biografy 923.6
Aborigines
American antiquities 913.7
ethnology 572.97
history 970.1
prehistoric archeology 571
Abortion
ethics 173.4
law 343
pathology of pregnancy 618.39
About, E.F.V. French fic. 843.86
Abrasions surgery 617.13
Abrasivs engineering 621.92
Abraxas gems 736
gnostics 273.1
Abridged notation
modern analyt. geom. 516.52
Abridging literary meth. 029.4
shorthand 653
Abridgments Eng. law 346.5
U. S. law 345.5
[1]Abruzzo, Italy history 945.71
travels 914.571
Abscess
in lungs diseases 616.244
surgery 617.23
Absence
leave of laboring classes 331.816
military sci. 355.11
permits school rewards 371.53
Absences school disciplin 371.52
Absent voting suffrage 324.247
Absenteeism Irish hist. 941.5
Absentmindedness psych. 151.4
Absolute geometry 513.8
majority suffrage 324.262
the ontology 111
Absolution sacrament 265.6
Absolutism pol. sci. 321.6
predestination 234.9
Absorbent system animals 591.13
man 612.3
plants 581.13
Absorbing wells sanita. 628.542
Absorption
by skin physiology 612.791
soil agriculture 631.432
hygiene of employment 613.63
Absorption
in intestin physiology 612.3327
large intestin " 612.364
peritoneum physiol. 612.3391
stomach " 612.3227
urin. passages " 612.4672
lymphatic " 612.426
of heat physics 536.34
light " 535.3
liquids " 532.7
in lungs physiol. 612.2159
physiology 612.38
Abstinence asceticism 248
temperance 178.2
Abstracting lit. methods 029.4
Abstraction philosofy 153.3
Abstracts of titles law 347.2
Abutments bridges 624.16
[1]Abyssinia history 963
[4] language 492.8
travel 916.3
Abyssinian milk goat 636.3986
Academic
degrees and costume 378.2
education 373
freedom education 378.121
pol. sci. 323.444
sermons 252.5
Academicians, biografy of 920.6
Academies
architecture 727.2
female 376.9
learned gen. societies 060
[2] of special subj. see subj.
national gen. societies 060
[2] of special subj. see subj
private, for boys 373
girls 376.9
mixt 373
public, history 379
theory 379.171
scientific 506
Academy, new Gk philos. 186.2
older " 184
[1]Acadia, Nova Scotia hist. 971.6
Acalepha zoology 593.73
Acanthaceæ botany 583.86
Acanthocephala parasites 616.966
Acanthopteri zoology 597.5
Acapnea physiol. 612.2842
Acaridæ animal parasites 616.9685
zoology 595.4
Acarnania, Greece ancient 938.3

Acceleration of the moon 523.33
Accent
[3] pronunciation Eng. lang. 421.6
[3] prosody " " 426.1
Access to library shelvs 024.56
Accession
book library admin. 025.24
dep't " " 025.2
Accessories
accumulator elec. eng. 621.3547
architectural 729.9
arc-light elec. eng. 621.3257
artillery mil. " 623.46
boiler steam " 621.1847
chemic receptacles 542.23
electric
machinery elec. eng. 621.316
rolling stock " " 621.3344
traction line " " 621.3327
gasoline engins 621.437
hydraulic machinery 621.267
library bildings 022.349
of dress domest. econ. 646.48
primary cell elec. eng. 621.3537
school bildings 371.629
steam plant 621.197
telegraf 621.38329
voltaic battery engin'g 621.352
Accessory
nuclei anatomy 611.8187
obturator nerv anatomy 611.83561
Accidence
English language 425.1
[3] other languages
Accident
insurance business 368.4
economics 331.25
Accidents
dangerous occupations 613.66
industrial 614.83
medicin 617.1
military explosivs 623.483
milk 637.16
miners 622.85
police mesures 351.78
protection of public 614.8
railroad 656
Acclimatization
animals 591.52
evolution 575.3
hygiene 613.11
man 573.4
mental influence 136.2
Acclimatization
plants agric. 631.525
botany 581.52
zootechny 636.0836
Accommodation, optic
disorders of 617.75
physiology 612.8421
Accomplises crim. law 343
Accordeon music 788.9
Accountability doctrin 233.4
Accounts
book-keeping 657
butter business 637.216
cheese " 637.316
farm 631.16
household dom. econ. 647.1
laundry " " 648.11
library admin. 025.114
milk business 637.116
stock farming 636.0816
supervision of bilding 692.7
Accouterments agriculture 636.0837
mil. science 355.81
Accubation soc. customs 394.1
Accumulation capital 331
Accumulator
panels elec. eng. 621.31728
substations " " 621.31265
Accumulators
electric engineering 621.354
hydraulic 621.254
physics 537.84
telefone stations 621.38762
Accusativ
etymology, Greek 482.5
Latin 472.5
[3] other languages
syntax, Greek 485.5
Latin 475.5
[3] other languages
Acephala zoology 594.1
Acetabulum anatomy 611.7181
Acetates diuretics 615.761
Acetonuria physiol. 612.46661
Acetylene
chemic technology 665.8
heat prac. chem. 542.42
light dom. econ. 644.314
lib. " 022.753
stoves 643.334
Acetylenes organ. chem. 547.23
Achaia, Greece anc. hist. 938.7
Achaian leag " " 938.08

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Achlamydosporeæ botany 583.94
Achlorophyllæ botany 589.9
Achromatism optics 535.4
Acid
in gastric juice physiol. 612.3212
poisons therapeutics 615.921
waters mining eng. 622.57
Acidimetry chemistry 545.2
Acids
aids to digestion 615.7343
chemic technology 661.2
disinfectants 614.484
fixt materia medica 615.34
organic chemistry 547.7
qualitativ analysis 544.13
theoretic chemistry 541.4
vegetable drugs 615.338
Acini of brests anatomy 611.692
Acology medicin 615.5
Aconite
botany 583.111
medicins 615.323111
poisons 615.98
therapeutics 615.716
Acorn, colonial order of the 369.126
Acoustic
nerv anatomy 611.8318
physiol. of ear 612.8585
" " nervs 612.8198
perception " 612.8587
Acoustics
applications to architect. 534.84
music 781.1
physics 534
Acquisition
library methods 025.22
of farm 631.11
stock zootechny 636.0811
territory pol. sci. 320.126
Acrania zoology 597.1
Acrididæ entomology 595.73
Acrobats
amusements 791
ethics 175.1
Acrogens botany 586
Acromioclavicular joint 611.72724
Acromion anatomy 611.7171
Acromiothoracic arteries 611.1341
Acropolis
architecture 722.8
Grecian antiquities 913.385
Acrostics Eng. language 828
Actinaria zoology 593.65
Acting ethics 175.2
theater 792
Actiniaria zoology 593.6
Actinism optics 535.85
photografy 771
Actinium chemistry 546.842
Actinometer physics 536.6
Actinotherapy medicin 615.831
Actinozoa zoology 593.6
Action legislativ procedure 328.374
Actions legal procedure 347.9
Actors biografy 927.92
Acts
and resolvs Am. stat. 345.1
Eng. " 346.1
of learned societies gen. 060
for spec. subjects see topic
legislativ bodies, U. S. 345.1
the Apostles 226.6
Aculeata zoology 595.79
Acupuncture therapeutics 615.814
Acute diseases 616
Acyclic machines elec. eng. 021.313291
Ad valorem duty
customs 336.26
protection 337
taxes 336.26
Adages
English literature 828
[5] other literatures
folklore 398.9
[1]Adair co. Ia. history 977.773
[1] Mo. " 977.8264
Adam, Onkle Swed. fict. 839.7364
Adam de la Halle Fr. dram. 842.12
Adamites heresy 273.9
Adam's fig fruit culture 634.773
Adams, J: presidency of 973.44
J: Q. " 973.55
[1]Adams co. Ill. history 977.344
travels 917.7344
[1] Ind. history 977.273
[1] Ia. " 977.776
[1] O. " 977.186
[1] Pa. " 974.842
[1] Wis. " 977.556
[1]Adana, Asiatic Turk. hist. 956.4
Adaptability of soil 631.44
Adaptation evolution 575.3
Adapters prac. chem. 542.231
Adding machines 510.8
[1]Addington co. Ont. hist. 971.359
Addison, J. Eng. essays 824.52

Addison co. Vt. history 974.35
travels 917.435
Addison's disease 616.45
Addition arithmetic 511.2
Addresses
American literature 815
[5] other "
and petitions
control of admin. 351.97
legislativ procedure 328.372
library propagandism 021.78
on education 370.4
[2] spec. topics see topic
U. S. history civil war 973.794
revolution 973.394
war of 1812 973.5294
Addressing machines print. 655.36
Adductors
of thigh anatomy 611.73824
toes " 611.7389
pollicis " 611.73773
Adenoid tissue histology 611.01824
Adenoids pathology 616.21
surgery 617.42
Adhesion physics 539.2
Adipogenic function
physiology 612.3522
Adipose
bodies anatomy 611.39
tissue histology 611.01826
Adiposity physiol. 612.3977
Adirondacks travel 917.4753
Adjectiv forms
[3] etymology Eng. lang. 422.6
[3] inflection " " 425.16
[3] syntax " " 425.6
[3] other languages
Adjournment legis. bodies 328.356
Adjustable speed motors 621.313247
tooth harrow 631.3131
Adjutages 532.52
Adjutant general's rpt, U. S. 353.6
Administration
engineering works 621.704
household dom. econ. 647
individual libraries 025.18
library 025
of medicins therapeutics 615.6
political science 350
Administrativ
action, subjects of 351.7
bildings architecture 725.1
control 351.91
law 350
Administrativ
reform 351.6
rooms lib. bldgs 022.62
Administrator law 347.6
Admirals biografy 923.5
Admiralty
English navy 354.427
foren countries 354
[1] ilands history 993.7
law 347.7
Admission school 371.21
Adnexa, uterin anatomy 611.65
Adobe masonry 693.22
Adolescence
childstudy 136.7
ration during physiol. 612.394
Adolphus German hist. 943.026
Adonhiramite free masonry 366.1
Adoption family law 347.6
Adoptionists heresies 273.9
Adsorption pneumatics 533.1
Adult mortality pub. helth 614.134
Adulterations
butter 637.26
chemic analysis 543
technology 660
fertilizer agric. 631.818
milk 637.16
public helth 614.3
Adultery ethics 176.6
law 343
Advent Anglican festivals 264.031
second christol. 232.6
Adventists, second biog. 922.6
sect 286.7
Adventitious nerv sheath
histology 611.018835
Adventures biografy 923.9
travels, etc. 910
Adverbs, etymol. Eng.lang. 422.9
[3] other lang.
syntax Eng. lang. 425.9
[3] other lang.
Adverse possession law 347.2
Adversity pauperism 339
Advertising
bilding contracts 692.4
commerce 659.1
department journalism 070.36
library propagandism 021.73
publishing 655.55
self newspaper expenses 070.348
methods 070.336
Advocacy 347.92

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Advocates, Faculty of 347.06
lives 923.4
Advowsons canon law 348
Ædiles Roman antiquities 913.37
Ælfric Anglo Saxon lit. 829.6
Æolian harp music 787.5
Æolic dialect Greek lang. 487.921
Aerated
bred cookery 641.6
waters chem. tech. 663.6
hygiene 613.38
Aeration
water purification 628.16
Aerial
bridges engineering 624.86
erosion geology 551.37
layering agriculture 631.5344
lines elec. eng. 621.31922
maps aeronautics 629.145
navigation *see* Aeronautics
operations Great war 940.44
topografy aeronautics 629.145
Aerials
wireless telefony 621.38465
telegrafy 621.38435
Aerobic cells physiol. 612.01411
Aerodromes aeronautics 629.144
Aerodynamics engineering 629.142
physics 533.6
Aerolites astronomy 523.51
geology 552.6
Aerometers prac. chem. 542.32
Aeronautic sickness
respiration in physiol. 612.27511
Aeronautics
military engineering 623.74
physics 533.6
useful arts 629.13
Aerophytes lichens 589.1
orchids 584.15
Aeroplanes construction 629.17
military 623.746
Aerostatics engineering 629.141
physics 533.6
Aerostation aeronautics 629.15
Æschines Greek oratory 885.5
Æschylus drama 882.1
Æsop fables 888.6
Æsthetics, *see* Esthetics
Æther, *see* Ether
Æthiopia ancient history 939.78
"Ætna" Latin poem 871.7
Ætolia ancient history 938.3
Ætolian leag Greek hist. 938.08
Affections physiol, psych. 612.82133
psychology 157
Affidavits 347.94
Affinity chemistry 541.39
family law 347.6
Affixes English language 422.2
[3] other languages
Affliction
[4]Afghani language 491.58
religion 299.158
[1]**Afghanistan history 958**
travel 915.8
Afids pests 632.75
Africa antiquities 913.6
botany 581.96
geology 556
[1] **history 960**
statistics 316
travels 916
other topics see table 1
[1] **North history 961**
travels 916.1
[1] **Central history 966**
Propria, ancient " 939.73
[1] **South " 968**
[1] **Central " 967**
African
colonization sociology 325.6
discovery of America 973.11
geese 636.59886
languages 496
[4] **Ethiopic 492.8**
Hamitic 493
methodist church 287.8
mortality public helth 614.144
sheep 636.386
slave trade 326.1
swine 636.486
Afterbrain anatomy 611.818
Afternoon tea dom. econ. 642.2
lib. " 021.5
recipes 641.53
Agamogenesis animals 591.165
Agave fibers 633.577
Age
influence therapeutics 615.54
mental characteristics 136.5
of animals zoology 591.139
zootechny 636.08116
legislators pol. sci. 328.331
man physiology 612.68
somatology 573.3
statistics 312
plants grafting 631.5412

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Age
of pupils 379.14
readers 024.11
the world 550.1
voters 324.11
school 379.14
Aged
cookery for dom. econ. 641.563
diet for 613.21
homes for architec. 725.56
institutions 362.6
Agencies
domestic servis 647.2
employment pol. econ. 331.86
Y M C A 267.3562
student aid 378.364
teachers 371.145
Agents, consular 341.8
external therapeu. 615.77
geologic 551.9
law 347.4
Ages, archeologic 571
geologic 551.7
Agglutinating substances
physiology 612.11144
Agglutination philology 401
Agiotage stock exchange 332.6
Agnosticism nat. theol. 211
philosofy 149.7
Agnostics relig. heresy 273.8
Agnus Dei music 783.22
Agrarian laws
political science 333
Roman history 937
Agreements bilding 692.4
ethics 174.7
law 347.4
Agricola, M. Ger. poetry 831.41
Agricultural
banks pol. econ. 332.311
botany 630.28
chemistry 630.24
classes pol. econ. 331.8
colleges 630.711
colonization 325
colony laboring classes 331.8
credits banking 332.311
experiment stations 630.72
geology agriculture 630.25
econ. geol. 553.6
implements 631.3
insurance 368.5
law 347.2
machinery 631.3
Agricultural
pests agriculture 632
zoology 591.69
products pol. econ. 338.1
societies 630.6
system pol. econ. 330.1
Agriculture 630
cooperativ 334.6
departments of 630.61
gov't relations 351.823
indians 970.6
rent of land 333.5
Agrippa medieval phil. 189.5
Agrostideae grass crops 633.285
[1]Aguascalientes, Mex. hist. 972.4
Ague diseases 616.936
Aguirre sheep, Spanish 636.366
Aid
societies charitable 361
cooperation 334
student 378.362
state, to education 379.12
libraries 021.83
to the injured 614.88
Aides de camp mil. sci. 355.33
[1]Aidin, Asia Turk. hist. 956.2
Aids
mil. science 355.33
to digestion therapeu. 615.734
readers lib. econ. 028.8
ref. work 025.5
Ailerons aeronautics 629.181
Ailes library bldgs 022.434
Aim of college and university 378.01
education 370.1
[1]Ain, France history 944.44
Air
abnormal physiology 612.2231
analysis chemistry 543.7
baths, hot hygiene 613.46
bladder comp. anat. 611.29
phys. 612.767
brakes railway eng. 625.2
cocks steam eng. 621.18479
compressors mech. eng. 621.51
comprest, *see* Comprest air
confined, respiration in 612.233
disinfection cont. dis. 614.48
ducts ventilation 697.9
engins mech. eng. 621.4
expired physiology 612.231
gun mil. engineering 623.4422
mech. trades 683
hygiene 613.1

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Air
in towns **pub. helth** **614.78**
layering agriculture 631.5344
liquid physics 533.2
machines refrig. 621.575
mesology 612.014464
meteorology **551.5**
normal physiol. 612.2208
operations Great war 940.44
passages **anatomy** **611.2**
diseases **616.2**
physiology **612.2**
plants **lichens** **589.1**
orchids **584.15**
pneumatics **533**
pollution by cemeter. 614.652
pub. helth **614.7**
pressure of meteorol. 551.54
pump 533.5
residual physiology 612.24
soil physics agriculture 631.433
spaces pub. helth 614.783
ventilation 628.8
Aircraft
hevier than air **629.17**
lighter " , " **629.15**
Airships **engineering** **629.154**
military engin'g **623.74**
theory 533.6
Airsickness
aeronautics 629.145
physiology 612.27511
Airways aeronautics 629.145
mining engin'g 622.45
Airy's theory geodesy 526.14
Aisles library bldgs 022.434
[1]Aisne, France history 944.34
Aix-la-Chapelle
international congress 341.1
treaties 341.2
Akenside, M: Eng. poetry 821.62
Akkad ancient history 935.4
[1]Akron, O. history 977.1361
Alabama
claims arbitration 341.6
Eng. history 942.08
claims internat. law 341
neutrals 341.3
U. S. hist. 973.722
ship and Kearsarge 973.754
privateers 341.3
U. S. civ. war 973.757
state admission U. S. hist. 973.54
[1] history 976.1
Alabama, state
secession U. S. hist. 973.713
travel 917.61
Aladdin oven
kitchen equipment 643.338
recipes 641.588
Alamanni, L. Ital. poetry 851.36
[1]Alameda city, Cal. hist. 979.465
[1] co. " " 979.465
Alar thoracic artery 611.1341
Alarcon y Mendoza 862.34
Alarms, fire
local government 352.3
protection of public 614.842
signals 654.7
Alaska
[1] history 979.8
purchase U. S. hist. 973.81
travel 917.98
Alba anatomy **611.824**
Albania
Asia anc. hist. 939.56
[1] Turkey mod. hist. 949.6
travels 914.96
Albanian swine 636.474
Albany
[1] city N. Y. history 974.743
convention U.S. hist. 973.26
[1] co. N. Y., history 974.742
Albemarle, ship U.S.civ.war 973.754
Albert 1 German history 943.026
2 " " 943.028
[1]Albert co. N. B. hist. 971.531
nyanza travels 916.76
[1]Alberta, Canada history 971.23
Alberti, L. B. Ital. essays 854.21
Albertypes 774
Alberus, Eras. Ger. poetry 831.43
Albicans anatomy 611.8142
Albigenses persecutions 272.3
sect 284.4
secular hist. 944.023
Albigensian sheep 636.3467
Albinism animals 591.157
dermatology 616.55
Albuginea anatomy 611.6313
Albuminoid
derivates, nonnitrogenous
physiol 612.398197
substances, dialysis of
physiol. 612.3824
Albuminoids
gastric digest. physiol. 612.3224
in blood " 612.124

Albuminoids
in milk physiol. 612.66414
muscles " 612.74414
intestinal digestion 612.3324
physiologic chemistry 612.015348
physiology 612.398
quantity in food and tis. 612.3987
transforma. in organism 612.3982
tryptic digestion 612.3424
vegetable physiology 612.39815
Albuminoses physiology 612.39817
Albumins
in blood physiology 612.124
nutrition 612.398
Albuminuria
physiologic 612.461269
toxic physiology 612.4642
urin in " 612.46622
Albumose physiology 612.39817
Alchemy 540.1
Alciphron Greek letters 886.2
Alcohol
as a food physiology 612.3931
cooking appliances 643.335
denatured chem. tech. 661
engins engin'g 621.43424
heat cookery 641.585
heating prac. chem. 542.43
hygiene 613.81
narcotic poisons 615.964
physiologic psychology 612.82144
stimulants 615.711
stoves kitchen equip. 643.335
tractors agriculture 631.3722
Alcoholic
drinks ethics 178
physiology 612.3931
ferments phys. chem. 612.015161
liquors manufacture 663
temperance 178
Alcoholism diseases 616.861
Alcohols organic chem. 547.3
[1]Alcona co. Mich. hist. 977.479
Alcoran Mohammedanism 297
Alcott, A. B. moral gov. 371.58
L. M. Am. fiction 813 41
Alcoves lib. bildings 022.422
Alcyonaria zoology 593.62
Aldehydes organ. chem. 547.5
Aldermen local govt. 352.0
Alderney cattle 636.2242
iland travel 914.234
Aldine editions rare books 094
Aldrich, T. B. Am. fiction 813.44
Aleardi, A. Ital. poetry 851.81
Alembert, J. Le R.d' 844.53
Alembics prac. chem. 542.48
[1]Aleppo, Asia Turk. hist. 956.8
Alert, ship Am. revol. 973.363
Ales manufacture 663.3
[1]Aleutian ilands history 979.8
Alexander 2 Rus. " 947.08
3 " " 947.08
[1]Alexander co. Ill. hist. 977.3999
Alexandria, Egypt
ancient history 932
[1] modern " 962.1
travels 916.21
Alexandrian
Greek dialects 487.2
library 027.032
philosofy 186.4
Alfa fibers 633.583
Alfabet
elementary education 372.4
English orthografy 421.1
[3] other languages
Alfabetic
subject catalog 025.3
classification 025.4
Alfabetico-clast
catalog cataloging 025.3
catalogs 019
Alfabeting cataloging 025.3
Alfabets ornamental 745
[3] **philology 411**
Alfalfa agriculture 633.31
Alfieri, V. Ital. drama 852.64
Alfonso 10 Span. lit. 868.11
11 " " 868.14
12 " history 946.08
13 " " 946.08
Alfred the Gt Ang.Sax.lit. 829.7
Algæ botany 589.3
Algaroba fruit culture 634.462
Algarotti, F. Ital. poetry 851.58
Algebra 512
higher 512.8
Algebraic logic 164
[1]Alger co. Mich. history 977.493
[1]Algeria, Africa " 965
Algerine sheep 636.386
war Alg. hist. 965
U. S. " 973.53
[1]Algiers, Africa history 965
travels 916.5
[1]Algoma district, Ont. hist. 971.313
Algrafy lithografy 763

Alhambra architecture 723
history 946.8
Alien act U. S. history 973.44
laws 341.5
races citizenship 323.63
Alienation of territory 320.127
Alienism mental pathol. 132
Aliens
international law 341.5
naturalization 323.62
owners of land pol. econ. 333.4
Alighieri, Dante Ital. poet. 851.15
Alignment of sewers 628.218
Alimentary canal
anatomy 611.3
physiology 612.3
sympathetic system 612.898
Alimentation
calorimetry 612.5121
forced hygiene 613.23
relations to glycogenesis 612.3529
Alimony law 347.6
Alinement of sewers 628.218
Alismaceæ botany 584.72
Alkalies chemic technol. 661.3
chemistry 546.31
Alkalimetry quan. anal. 545.2
Alkalin
accumulators elec. eng. 621.356
earths chemistry 546.4
poisons therapeutics 615.922
waters econ. geology 553.71
Alkaloidal plants agric. 633.7
Alkaloids
drugs mat. med. 615.336
physiologic psychology 612.82141
ptomains 612.398195
Alkoran Mohammedanism 297
All fools day customs 394
All hallow eve " 394
All Saints Ang. festivals 264.031
All Souls " " 264.031
[1]Allamakee co. Ia. hist. 977.733
Allantoin physiology 612.461263
Allantois
embryology 611.01382
pedicle of anatomy 611.622
Allatoona, Ga. U.S.civ.war. 973.7372
[1]Allegany co. Md. hist. 975.294
travels 917.5294
[1]Alleghany N. Y. hist. 974.784
[1] **crest W. Va. history 975.48**
travel 917.548
mountains travels 917.5
[1]Allegheny City Pa. hist. 974.887
[1] co. " " 974.885
Allegiance Eng. priv. law 347.1
internat. law 341.5
naturalization 323.62
political science 320.158
[5]Allegories Eng. literature 828
religious 244
[1]Allen co. Ind. history 977.274
travels 917.7274
[1] Mich. history 977.414
[1] O. " 977.142
shorthand system 653.57
Allergy medicin 615.37
Alliance
Evangelical 206
Holy treaties 341.2
ship Amer. revol. 973.357
Alliances internat. law 341.2
pol. science 321.022
[1]Allier, France history 944.57
Allies
Entente Great war 940.332
Teuton " " 940.334
Alligation arithmetic 511.8
Alligator pear 634.653
Alligators 598.14
Alliteration prosody 416
rhetoric 808
Alliterativ poems Eng. 821.1
Allodium land ownership 333.3
law 347.2
Allopathy medicin 615.5
Allotment system 333.5
Allotropism chemistry 541.7
Alloys manufactures 671
tests 620.18
theoretic chem. 541.4
Allspice agriculture 633.831
Alluvium geology 551.35
Almanacs
for teachers 370.59
general 529.5
nautic 528
statistical 310
Almond nuciculture 634.55
See also distinguishing names
nucleus anatomy 611.81314
Almqvist, K:J.L. Sw. poetry 839.7166
Alms ethics 177.7
Almshouses 362.5
architecture 725.55
pauperism 339
Aloe fiber 633.5774

Aloes poisons 615.93
Alopecia dermatology 616.54
Alpaca domestic animals 636.296
fabrics dom. econ. 646.13
[1]Alpena co. Mich. history 977.481
travels 917.7481
[1]Alpes Basses, France hist. 944.95
[1] Hautes " " 944.97
[1] Maritimes " " 944.94
Alphabet, etc. *see* Alfabet
Alphen, H. van Dutch poet. 839.3147
[1]Alpine co. Cal. hist. 979.443
goat 636.3936
plants botany 581.9494
strawberry 634.753
travels 914.94
[1]Alps history 949.4
travel 914.94
[1]Alsace French history 944.383
[1]Alsace-Lorraine French hist. 944.38
Germ. hist. 943.44
Alsatian poultry 636.538
Alsineæ botany 583.154
Alsop, George Am. satire 817.12
Richard " poetry 811.25
Altar cloths sac. ornam. 247.7
Altars architec. accessor. 729.91
ecclesiology 246.6
Alt-azimuth instruments 522.42
Alterations butter 637.26
milk 637.16
Alternate generation zool. 591.163
Alternating current
action on organisms 612.0144245
arc light elec. eng. 621.32552
electrophysiol. technic 612.0144215
machinery elec. eng. 621.3133
traction lines " " 621.33143
Alternativ
vote suffrage 324.224
Altitude
imponderable remedies 615.835
physiologic effects 612.2751
[1]Alton, Ill. history 977.386
riot U. S. history 973.57
[1]Altoona, Pa. history 974.876
Altruism ethics 171.8
Aluminum
in articles of dress 646.19
inorganic chemistry 546.66
metallurgy 669.7
Alumnae associated 376.66
Alumni associated 378.068
biografy 378
Alveolar limbus anatomy 611.71641
Alwato universal lang. 408.9
Amadeus Spanish hist. 946.08
Amadis de Gaula Span. fict. 863.22
[1]Amador co. Cal. history 979.442
Amalgamated pigeons 636.59628
Amalgamation metallurgy 669.2
Amalgams manufactures 671
Amanuenses shorthand 653.043
Amarantaceæ botany 583.913
Amaryllideæ " 584.25
Amateur
cataloging 025.3
manuals mech. trades 680
theatricals amusements 793
ethics 175.2
Amaurosis diseases of eye 617.73
Amazon river travel 918.1
Amazons customs 396.9
Ambari hemp 633.563
Ambassadors internat. law 341.7
pol. science 327
Amber
geology 553.29
jewelry 391.7
mineralogy 549.8
Ambidexterity 612.763
Ambiguous nucleus anat. 611.81875
Ambra, F. d' Ital. drama 852.35
Ambrosia antiquities 913.38
mythology 292
Ambrosian chant ecclesiol. 246.8
music 783.5
Ambrotype 772
Ambulances 614.881
for contagious diseases 614.882
Ameboid cells physiology 612.112
Amendments U. S. const. 342.731
America
discovery 973.1
Norwegian 948.02
[1] **history 970**
travel 917
[1] **Central history 972.8**
travel 917.28
[1] **North history 970**
travel 917
other topics see table 1
[1] Russian history 979.8
travels 917.98
[1] **South history 980**
travel 918
American
aborigines 970.1
antiquarian society 913.7

American
antiquities 913.7
art galleries 708.1
auxiliaries in revolution 973.346
beef cattle 636.282
bibliografy 015.7
biografic dictionaries 920.07
black currants 634.7232
buffalo 636.2921
chestnut 634.532
civil war U. S. hist. 973.7
colleges 378.7
colonies history 973.2
constitution 342.731
constitutional history 342.739
copyright leag 655.63
cyclopedias 031
dairy cattle 636.283
draft horse 636.158
ducks 636.59781
gooseberry 634.727
hereditary societies 369.1
Holderness cattle 636.2831
independence U. S. hist. 973.313
indians 970.1
languages North Am. 497
South Am. 498
literature 810
newspapers 071
painting 759.1
party 329.5
patriotic societies 369.1
periodicals 051
philosofers biografy 921.1
philosofy 191
plan meal systems 642.52
poetry 811
poets biografy 928.11
political parties 329
poultry 636.581
P. E. church 283.7
prisons Amer. revol. 973.372
private law 347
rebellion U. S. history 973.7
revolution
Canada history 971.024
children of 369.137
daughters of 369.135
sons of 369.133
U. S. history 973.3
sheep 636.3681
saddle horses 636.13
slavery 326

American
Spanish war U. S. hist. 973.89
statutes law 345
swine 636.481
trotter 636.128
turkey 636.59211
wars, society of 369.118
water cress 635.562
Americana history 970
Americanisms 427.9
Amerigo Vespucci 973.16
Ames, Fisher Am. oratory 815.22
[4]**Amharic language** 492.8
Amherst college 378.744
Amic acids organ. chem. 547.8
Amicis, E. d' Ital. misc. 858.82
Amideo fishes 597.4
Amidic acids physiology 612.398192
Amids organic chem. 547.8
Amiens, peace of treaties 341.24
Amins organic chem. 547.8
Amistad case U. S. hist. 973.57
Ammergau passion play 792
Ammeters elec. eng. 621.3744
Ammirato, S. Ital. essays 854.46
Ammonia
absorption machines 621.573
chemic technology 661.3
compounds physiol. 612.398194
compression machines 621.572
fertilizers agric. 631.841
salts chem. tech. 661.5
stimulants 615.711
Ammonite agriculture 631.848
Ammoniums org. chem. 547.8
Ammunition
chests ordnance 623.4315
military engineering 623.45
ships shipbilding 623.826
Amnesty 341.3
Amnion embryology 611.01383
pregnancy 618.37
Amniotic fluid
embryology 611.013835
physiology 612.649
Amoeboid cells physiol. 612.112
Amorfous state chem. 541.7
Amory, T: Eng. humor 827.62
Amos, book of Bible 224.8
Ampelideæ botany 583.279
Ampère-hour meters eng. 621.3844
Amphiarthrosis anatomy 611.7294
Amphibians 597.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Amphictyonic council 938
Amphipods zoology 595.37
Amphitheater
antiquities 913.376
architecture, ancient 722.7
modern 725.82
Amputation surgery 617.94
[1]Amsterdam history 949.2
travels 914.92
Amusements 790
children's dom. econ. 649.5
ethics 175
hygiene 613.74
of laboring classes 331.84
school 371.74
Sunday 263.6
Amygdalin nutrition 612.396175
Amygdaloid tubercle anat. 611.81314
Amyloids nutrition 612.398146
histology 611.01884
Amylolytic ferments phys. 612.01515
Amyotrophy physiology 612.7465
[5]Ana English literature 828
literature 808.8
Anabaptists sects 284.3
Anacanthani zoology 597.5
[1]Anacapa, Cal. hist. 979.492
Anacardiaceæ botany 583.292
Anacardiaceous fruits 634.44
Anacreon Greek poetry 884.3
Anaemia, *see* Anemia
Anaerobic cells physiol. 612.01411
[5]Anagrams Eng. literature 828
pseudonyms 014
Analgesics therapeutics 615.783
Analogous projections
descriptiv geometry 515.2
Analogy
comparativ anatomy 591.4
English language 422.1
[3] other languages
logic 169
plants 581.4
theology 219
Analysis
air chemistry 543.7
arithmetic 511.5
blowpipe chemistry 544.3
botanic 581
butter 637.227
capillary chemistry 544.92
cheese 637.327
chemic 543
Analysis
combinatory algebra 512.5
diophantin " 512.23
electro chemistry 544.9
fertilizers agriculture 631.818
gas chemistry 544.4
grammar English 425.3
[3] other languages
logic 160
microscopic 578
milk adulterations 614.321
agriculture 637.1277
chemistry 543.2
mineralogy 549.1
polariscopic chem. 544.7
qualitativ chem. 544
quantitativ chem. 545
soil hygiene 614.771
soils 631.42
sounds acoustics 534.4
spectrum astronomy 522.67
chemistry 544.6
optics 535.84
water biol. hygiene 613.34
chemistry 543.3
micros. hygiene 613.33
Analysts, public adulter. 614.3
Analytic
chemistry 543
geometry 516
trigonometry 514.5
[1]Anam, Asia history 959.8
Anaphylaxis medicin 615.37
Anarchism socialism 335
Anastatic printing 655.22
Anastomotica magna artery
elbow anatomy 611.1342
knee " 611.13785
Anathema church discip. 262.9
Anato buttermaking 637.26
Anatolian sheep 636.385
swine 636.474
Anatomy
animal zootechny 636.0891
anthropologic 611.014
art 743
comparativ medicin 611.019
plants 581.4
zoology 591.4
dental 611.314
descriptiv animals 591.7
plants 581.7
human 611

Anatomy
laws public helth 614.22
paleontologic 611.016
pathologic 616.078
regional 611.9
Anaxagoras Gk philosofers 182.8
Anaximander " " 182.1
Anaximenes " " 182.1
Ancelot, J. A. F. P. Fr. lit. 842.74
Ancestry evolution 575.1
genealogy 929.1
mental science 136.3
spirit. heredity 233.3
traductionism 129.2
Anchor
boring architecture 721.152
engineering 624.1552
ice physical geol. 551.31
Anchorage bridgebilding 624.57
Anchors, landing aeronautics 629.167
plumbing 696.7
shipbilding 623.86
Ancient
architecture 722
countries description 913.3
customs 913.3
customs and costume 390
geografy description 911.3
history 930
law 349.3
maps 912.3
music 781.8
philosofers biografy 921.9
philosofies 180
science 502
sculpture 732
student societies 371.836
therapeutics 615.89
Ancients, council of
French legislature 328.44
revolution 944.045
Ancona poultry 636.554
Anconaeus muscle anat. 611.73725
[1]Andalusia, Spain history 946.8
travel 914.68
Andalusian fowls 636.564
Andersen, H. C. Dan. fict. 839.8364
[1]Anderson, Ind. history 977.257
Andersonville pris. U.S.hist. 973.7711
Andes description 918
Andesite lithology 552.26
Andocides Gr. oratory 885.1
[1]Andorra history 946.7
André, John Am. revol. 973.386
biografy 923.542
Andrea, J. V. Ger. poetry 831.47
Andreini, G. Ital. drama 852.53
[1]Andrew co. Mo. history 977.8126
Andrieux, F. G. J. S. Fr. lit. 842.65
Andronicus, L. Lat. " 872.1
Andropogonae grass crops 633.282
Andros, Edmund U.S. hist. 973.24
[1]Androscoggin co. Me. hist. 974.18
trav. 917.418
Anecdotes
legal 340.9
library 020.88
miscel. Eng. literature 828
personal, *see* Biografy
religious 244
table 642.48
on spec. topics, see subjects
Anemia
cardiac physiology 612.1721
cerebral " 612.8244
diseases of blood 616.15
nervs physiology 612.8164
quantity of blood 612.1162
reflexes physiology 612.83393
Anemometer meteorology 551.51
Aneroid barometer 533.4
Anesthesia diseases 616.856
physiology 612.887
Anesthetics
effect on hart physiol. 612.1742
mesology 612.014465
physiologic psychology 612.82142
therapeutics 615.781
Aneurism pulmon. disease 616.247
surgery 617.41
Angels 235
Anger ethics 179.8
Angevin architecture 723.44
sheep 636.3446
swine 636.443
Angina pectoris diseases 616.12
Angiocarpæ botany 589.16
Angiulieri, C. Ital. satire 857.13
Angle, facial craniology 573.7
visual physics 535.7
physiology 612.84362
Angles
crystallografy 548.7
mesurement of astron. 526.93
strength of materials 620.11282

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Anglesey cattle 636.2236
[1] history 942.91
Anglican church
biografy 922.3
brotherhoods 271.8
chant music 783.5
creed 238.3
missions 266.3
ordination 262.17
persecution by, Eng. hist. 942.055
relig. hist. 272.7
of Eng. " 942.054
relig. " 272.6
religious hist. of Eng. 274.2
ritual 264.03
sects 283
sisterhoods 271.98
Anglicisms English lang. 427
Angling 799
Anglo-catholics 283
Anglo-Saxon
emigration 325.242
foren relations 327.73
history 942.01
homilies 829.5
language 429
literature 829
poetry 829.1
race characteristics 136.4
Anglomania customs 390
[1]Angola, Africa history 967.3
sheep 636.386
[1]Angora, Asia Turk. hist. 956.3
goat 636.3985
Angoulême, house of
French history 944.028
Anguilla zoology 597.5
Angular perspectiv geom. 515.61
drawing 742
Angus doddie cattle 636.2231
[1]Anhalt, Germany history 943.19
Anharmonics
analytic geometry 516.56
geometry 513.56
Anhydrids organic chem. 547.7
theoretic " 541.4
Anhydrous
silicates mineralogy 549.61
sulfates " 549.75
Anilin colors chem. tech. 667.2
Animal
chemistry analysis 543.9
organic chem. 547
Animal
diseases medicin 619
pub. helth 614.93
zoology 591.2
infectious pub. helth 614.91
electricity mind and body 134
physiology 612.014423
zoology 591.57
fats chem. technology 665.2
food domestic econ. 641.3
hygiene 613.128
physiology 612.3928
preservation 664.9
zootechny 636.0876
forms decorat'n, painted 729.42
relief 729.52
grafting comp. physiol. 612.602
heat physiol. zoology 591.11
physiology 612.5
instincts comp. physiol. 612.821313
irritant poisons 615.94
kingdom 590
life painless extinc. of 614.971
magnetism, *see* Animal electricity
motors engineering 621.46
oils chem. technology 665.2
parasites diseases 616.961
zoology 591.69
plagues vet. med. 619
power agriculture 631.3712
residues fertilizers 631.843
species and respiration 612.229
stories zoology 591.5
substances chem. anal. 543.9
engin'g 620.198
trades air pollution 614.74
worship nonchr. relig. 290
Animalculæ 593
Animals 590
agents of geol. work 551.95
Bible 220.859
care of animal hygiene 614.94
carriers of diseases 614.43
cruelty to ethics 179.3
ded air pollution 614.763
diff. fr. plants biology 577.5
physiol. 612.0135
diseases pub. helth 614.93
vet. medicin 619
zoology 591.2
domestic 636
electric comp. physiol. 612.771

Animals
evolution **575**
feeding animal hyg. 614.95
zootechny **636.084**
folklore 398.4
geografic distribution **591.9**
hibernating 612.58
hygiene pub. helth **614.9**
inanition 612.3919
insurance 368.5
intelligence zoology **591.5**
localization in
comp. physiol. 612.82525
locomotion comp.phys. 612.767
zoology 591.47
menageries 590.7
mind in 591.51
mythology 291
organs of sound
comp. physiol. 612.786
paleontology **560**
parasitic econ. zool. 591.69
phosphorescent
comp. physiol. 612.772
plants injurious to 632.59
psychology zoology 591.51
ration comp. physiol. 612.3943
subsistence 612.39523
working 612.39513
remains early stone age 571.13
late " " 571.23
reviviscent mesology 612.0144611
scent glands comp. phys. 612.493
econ. zool. 591.66
phys. " 591.144
symbolic religious art 246.5
traind 791
transportation hygiene 614.96
uric acid in comp. phys. 612.461254
vocal organs " " 612.786
Animation, suspended med. 616.206
Animism metaphysics 128
Anis agriculture 635.75
[1]Anjou, France history 944.18
Ankle
anatomy 611.985
bone anatomy 611.71871
joint " **611.7284**
Annapolis
[1] city, Md. history 975.256
travels 917.5256
[1] co. N. S. history 971.633
Anne, Queen architecture **724.5**
Eng. hist. 942.069
[1]Anne Arundel co.Md. hist. 975.255
Annealing
manufactures 671
molecular physics 539.54
Annelida worms 595.1
Anne's, Queen, war U.S.hist. 973.25
Annexation intern. law 341
pol. sci. 320.1265
Annihilation doctrins 237.3
nat. theology 218
Anniversaries
of invention of printing **655.12**
student life 371.89
U. S. history civil war **973.76**
Mex. " 973.626
revolution **973.36**
Span. war 973.896
war of 1812 973.526
Annotations
by readers lib. econ. 024.81
for readers 028.8
Announcement
of vote elections 324.268
Annuals, statistical **310**
special, see subject
Annuities
insurance 368.31
mathematics 519.5
public finance 336.35
Annunciation, feast of
Anglican ch. 264.031
Annunciators signals 654.7
Anodynes therapeutics **615.78**
Anointing sacraments 265
Anomala botany **583.297**
Anomali " **583.98**
Anomalies anat. 611.012
Anomodontia reptils 598.17
Anonaceæ botany 583.115
Anonaceous fruits agric. **634.41**
Anonyms bibliografy **014**
Anopheles, *see* Mosquitoes
Ansa
lenticularis anat. 611.8147
peduncularis " 611.8147
[1]Ansayrii history 955
Anselm medieval philos. 189.4
Anselm, H. Ger. fiction 833.53
Anslo, Reyer Dutch poet. 839.3135
Ant insects 595.79
pests 632.79
Antacids aids to diges. 615.7343
Antagonism of medicins
therapeutics 615.52

Antarctic
current ocean currents 551.47
explorations travels 919.9
ocean physical geog. 551.469
regions travel 919.9
Ante-Nicene church 100-325 281.3
Antennae animals 591.48
wireless teleg. 621.38435
Ante-reformation relig.hist. 270.5
Anterior poliomyelitis, *see*
Paralysis, infantil
Anterolateral colum of spinal
cord anat. 611.825
Anthelmintic drugs therap. 615.733
Anthems music 783.4
pub. worship 264.2
religious poetry 245
[5]Anthologies Eng. lit. 820.8
Anthracene org. chem. 547.28
Anthracite
economic geology 553.25
fuel dom. econ. 644.22
engineering 621.1822
metallurgy 669.8
Anthracosis diseases 616.24
Anthrax public helth 614.561
Anthropoid apes zoology 599.8
Anthropologic anatomy 611.014
Anthropology
mind and body 130
natural hist. of man 573
religious doctrin of man 233
Anthropometry 573.6
Anthropomorphism
metaphysics 125
Anthropophagy cannibalism 399
Antiburghers sects 285.6
Anti-Christ 235
Anticlinal strata geology 551.86
Anticlisis comp. psych. 612.821311
Anticorn law leag 337.2
[1]Anticosti iland, Que. hist. 971.417
Antidotes materia medica 615.9
Antietam, Md.
battle U. S. civ. war 973.7336
Antifebrin therapeutics 615.75
Antifederal party 329.2
[1]Antigonish co. N. S. hist. 971.614
[1]Antilles history 972.9
travel 917.29
Antimasonry 366.1
Antimission baptists 286.4
Antimonates mineralogy 549.72
Antimonids mineralogy 549.3
Antimony chemistry 546.86
ores 553.47
Antinomianism 273.6
Antipatharia zoology 593.64
Antiperiodics therapeu. 615.75
Antiphonal
choral servis music 783.24
readings public worship 264.4
Antiputrefactiv properties of
gastric juice physiol. 612.3225
Antipyretics therapeu. 615.75
Antipyrin " 615.75
Antiquarian societies 913
Antiquarians' lives 923.9
Antiquities
biblical 220.93
classic 913.38
countries 913
customs 390
Jewish antiquities 913.33
history 933
religion 296
legal 340.3
prehistoric archeology 571
see also special subjects
Antiquity of man 573.3
Antirust processes bldg 691.7
tests engin'g 620.1122
Antiseptics
agriculture 632.953
mesology 612.014466
obstetrics 618.89
public helth 614.482
therapeutics 615.778
Antislavery
documents 326.4
periodicals 326.5
societies 326.6
U. S. history 973.7111
Antisthenes Greek phil. 183.4
Antistrophe
English prosody 426.7
Greek prosody 486.7
[3] other languages
Antitoxic
action of liver physiol. 612.3542
Antitoxins
digestion 612.31451
in blood physiology 612.11821
nutrition 612.3988
Antitrinitarians heresies 273.4
unitarians 288
Antivaccination pub. helth 614.474

Antivivisection, *see* Vivisection
Antonides Dutch poetry 839.3137
[1]Antrim co. Ireland history 941.61
[1] Mich. " 977.485
Ants insects 595.79
pests 632.79
white " 595.73
[1]Antwerp history 949.3
travels 914.93
pigeons 636.59635
Anura batrachia 597.8
Anus anatomy 611.352
diseases of 616.35
Anvil anatomy of ear 611.857
Anvils blacksmithing 682
[3]Aorist Greek etymology 482.8
syntax 485.8
Aorta
abdominal anatomy 611.136
anatomy 611.132
thoracic anatomy 611.135
Aortic
arch anatomy 611.1321
valvs " 611.12652
Apartment
and offis bildings 725.22
houses architecture 728.2
dom. economy 647.92
Apatite economic geol. 553.64
fertilizers 631.851
mineralogy 549.72
Apes zoology 599.8
Apetalæ botany 583.9
Aphasia
diseases 616.855
localization of speech 612.825249
mental derangements 132.8
vocal physiology 612.7893
Aphelion astronomy 521.3
Aphids pests 632.75
Aphonia diseases 616.22
[5]Aphorisms Eng. literat. 828
folklore 398.9
Apiary bees 638.1
Apnea physiology 612.2842
Apocalypse 228
Apocarpeæ botany 584.7
Apocrypha 229
Apocryphal gospels Bible 229.8
Apocynaceæ botany 583.72
Apoda zoology 593.98
Apogee moon 523.33
tides 525.63
Apollo Belvedere sculpt. 733
worship 292
Apollonius Rhodius Gk lit. 883.3
Apologetics theology 239
Apomorphin emetics 615.731
Apoplexy diseases 616.81
Apostasy heresies 273
Apostles
acts of 226.6
creed 238.1
lives scriptural biog. 225.92
Apostolic
age apologetics 239.1
canons apocrypha 229.9
Catholic sect 289.5
church 281.1
persecutions 272.1
Apostolic
constitutions 281.1
epistles 229.9
fathers 281.1
period religious hist. 270.1
succession 262.11
Apothecary 615.4
[5]Apothems Eng. literature 828
folklore 398.9
[1]Appanoose co. Ia. hist. 977.789
Apparatus
buttermaking 637.232
care of milk 637.132
cheesemaking 637.332
manufacture 681
physical 530.7
practical chemistry 542.2
protectiv agriculture 632.94
see also special subject
Apparent motion earth 525.38
sun 523.73
time 529.1
Apparitions 133.1
Appeal voting procedure 324.243
Appellate proceedings law 347.9
Appendages of embryo
embryology 611.0138
physiology 612.644
Appendicitis diseases 616.34
surgery 617.55
Appendix
vermiform anatomy 611.3452
physiology 612.363
Appendixes, nerv histol. 611.01883
Appenzell goat 636.3938
Appetite physiology 612.3913

Appetites mental facul. 158
temperance 178
Appian way Roman antiq. 913.37
Apple
culture 634.11
custard 634.415
Jamaica 634.413
Mammee 634.654
moth 632.78
pond 634.414
rose 634.422
star 634.433
sugar 634.412
sweet Otaheite 634.442
[1]Appleton, Wis. history 977.539
Application
of fertilizers agric. 631.816
Applied
arts 600
chemistry chem. tech. 660
mechanics mech. eng. 621
science schools 607
Appliqué work 746
Appointment
of civil servis offisers 351.1
legislativ offisers 328.362
legislators 328.3351
library offisers 023.2
teachers education 371.142
Appointments, presidential 353.03
Appomattox, Va. U.S.hist. 973.7384
Apportionment
representation 328.3345
taxation 336.2
Appraisal of books 028.8
Apprentises
duties of ethics 174.8
labor polit. econ. 331.55
library economy 023.75
Apprentisship bldg trade 690.7
polit. econ. 331.86
Approach, grafting by 631.54146
Approaches bridgebilding 624.14
Approbation sch. gov't 371.53
Appropriation bills
legislativ powers 328.341
U. S. finance 336.73
Appropriations
library finances 025.112
support 021.91
Approximations algebra 512.22
Apricot
culture 634.21
S. Domingo 634.654
April 19, anniv. Am. revol. 973.362
Aprons domestic econ. 646.48
Apulia, It. ancient hist. 937.7
[1] modern " 945.75
travels 914.575
Aquaria 590.7
Aquataca 634.653
Aquatic
animals effect of baro-
metric pressure 612.279
rights law 347.2
pol. econ. 333.9
Aquatint engraving 766
Aqueduct of Sylvius anat. 611.8156
Aqueducts
canals 626.2
Roman antiquities 913.376
waterworks 628.14
Aqueductus cerebri anat. 611.8156
Aqueous
erosion geology 551.35
humor anatomy 611.8449
physiology 612.8444
rocks geology 552.5
treatment prac. chem. 542.6
Aquinas medieval phil. 189.4
Aquivascular
respiration zoology 591.123
Arabesques
decoration, painted 729.4
relief 729.5
design 745
piano music 786.42
Arabia
ancient history 939.47
[1] **modern history 953**
travels 915.3
Arabia Petraea
ancient history 939.48
[1] modern " 953.1
travel 915.31
Arabian horses 636.11
sheep 636.385
Arabic
architecture 723.3
discovery of America 973.11
[4] **language 492.7**
[5] **literature 892.7**
numerals arithmetic 511.2
philosofy 189.3
Arabs in Spain Span. hist. 946.02
Arachnida parasitica ectozoa 616.9685
zoology 595.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Arachnoid
  membrane anatomy 611.8293
  villi " 611.8193
[1]Aragon, Spain history 946.5
Araliaceæ botany 583.491
[4]Aramaic language 492.1
Araneida zoology 595.4
Arantius, venous duct of 611.1497
Aratus Greek poetry 881.2
Arbitrage stock exch. 332.6
Arbitrary
  power absol. monarchy 321.6
Arbitration
  capital and labor 331.1
  international ethics 172.4
    law 341.6
  law 347.4
Arblay, F. (Burney) d' 823.66
Arbor
  day horticulture 715
    school celebrations 371.365
  training agriculture 631.5465
  vitae anatomy 611.81715
    botany 585.2
Arboretums
  architecture 727.5
  botany 580.7
Arboriculture forestry 634.9
    land. gard. 715
Arbors landscape gard. 717
Arbuthnot, J: Eng. humor 827.54
Arc, Joan of Fr. history 944.026
Arc
  lighting elec. eng. 621.325
  rectifiers " " 621.31373
Arcades
  architectural construction 721.26
    design 729.33
Arcadia Greek anc. hist. 938.8
Arcani disciplina
  primitiv church 281.1
Arcesilaus Greek philosofy 186.2
Arch, aortic anatomy 611.1321
    hinged bridges 624.68
    trussed " 624.7
Archaean age geology 551.71
[3]Archaisms Eng. language 427
[1]Archangel, Russia history 947.2
Archbishops
  ecclesiastic polity 261.12
  lives Anglican 922.3
    Roman catholic 922.2
Arched constructions arch. 721.4
Archegony
  biology 576.1
  physiologic zoology 591.16
Archenteron embryology 611.01335
Archeology
  ancient description, etc. 913
  Biblical 220.93
  prehistoric 571
Archery 796
Arches
  architectural design 729.33
    construction 721.4
  engineering 624.6
  triumphal Rom. antiq. 913.37
Archilochus Greek satire 887.1
Archimedes screw physics 532.8
Archipelago
[1] **East Indian history 991**
  Greek ancient history 939.1
[1] **modern " 949.9**
Architectonics, architecture 720.1
Architects
  liability of bilding 692.9
  lives 927.2
Architectural
  accessories 729.9
  construction 721
  decoration 729
  design 729
  drawing 744
Architecture 720
  acoustics 534.84
  military bildings 623.61
    castles 728.81
    fortifications 623.1
  naval bilding 623.8
    engineering 623.8
  plans 692
  warships 623.8
Architraves arch. constr. 721.86
Archives, *see* History, Manuscripts
  of special topic see topic
Archons Greek history 938
Archt
  construction architecture 721.4
    bridges 624.6
Arctic
  currents 551.47
  explorations travels 919.8
  explorers lives 923.9
  ocean physical geografy 551.468

Arctic
[1] regions agriculture 630.0911
history 998
travels 919.8
[1]Ardèche, France history 944.82
[1]Ardennes, France history 944.31
draft horse 636.1542
sheep 636.3444
Ardent spirits
manufactures 663
temperance 178
Ardigo, I. Italian essays 854.85
Area, occupiable, proportion
of ground hygiene 614.784
Areas
geometry 513.18
surveying 526.97
[1]Arenac co. Mich. history 977.473
Areola anatomy 611.691
Areolar tissue anatomy 611.76
histology 611.01824
subcut. anat. 611.779
Areometer spec. gravity 532.4
Areopagus Greek antiq. 913.385
Aretino, Pietro Ital. dram. 852.34
Arezzo, G. d' " poetry 851.12
Argand lamp chem. tech. 665.6
dom. econ. 644.323
Argensola, B. L. Sp. poetry 861.34
L. " " 861.34
[1]Argenteuil co. Que. history 971.423
Argentina
administration 354.82
botany 581.982
finance 336.82
geology 558.2
[1] history 982
maps 912.82
schools, public 379.82
statistics 318.2
travel 918.2
treaties 341.282
other topics see table 1
Argillite geology 552.44
Argolis Greek anc. hist. 938.8
Argon inorgan. chem. 546.293
Argonauts Greek myth. 292
Argot French language 447.09
[3] other languages
Argument
from design apologetics 239
metaphysics 124
law 347.92
logic 168
Argumentation rhetoric 808
Argus, ship U. S. war 1812 973.5253
[1]Argyll, Scotland history 941.38
Aria vocal music 784.2
Ariana, Asia ancient hist. 939.65
Arianism heresies 273.4
Arici, Cesare Ital. poetry 851.67
[1]Ariége, France history 944.88
Ariosto, Lodovico It. poet. 851.32
Aristippus Gk philosofers 183.5
Aristocracy form of state 321.5
social classes 323.31
Aristolochiaceæ botany 583.924
Aristophanes Gk drama 882.4
Aristotelian philosofy 185
Aristotle Greek liter. 888.5
philosofy 185.1
Arithmetic
elementary education 372.7
mathematics 511
mechanical 510.8
political statistics 310
Arithmetical progression
algebra 512.6
arithmetic 511.6
Arithmometer, instrument 510.8
Arizona, U. S.
acquisition Mex. war 973.621
discovery U. S. hist. 973.16
[1] history 979.1
travel 917.91
For mil. hist. see subd. of Special campains and Military history under 973.7 and 973.89
Arkansas, U. S.
admission U. S. hist. 973.56
[1] history 976.7
For mil. hist. see subd. of Special campains and Military history under 973.52, 973.7 and 973.89
secession 973.713
travel 917.67
Arm
anatomy 611.972
lymphatics of anat. 611.42172
muscles " " 611.7372
Armada, Span. Eng. hist. 942.055
Span. " 946.04
[1]Armagh, Ireland history 941.66
Armament shipbilding 623.9
Armamentaria surgery 617.91
Armaments ordnance 623.4
Armature stamps elec. eng. 621.318

Armatures elec. eng. 621.316
Armd neutrality inter. law 341.3
Armenia ancient history 939.55
[1] modern " 956.6
Armenian
architecture 723.2
church 281.6
[4] **language** **491.54**
[5] **literature** **891.54**
Armies
military engineering **623**
science **355**
U. S. history civil war **973.74**
Mex. " **973.624**
revolution **973.34**
Spanish war **973.894**
war of 1812 **973.524**
war customs 399
Arminian baptists 286.1
Arminianism
continental prot. sects 284.9
methodism **287**
Armistis internat. law 341.3
Armor
fortifications 623.124
plate manufacture 672
shipbilding 623.9
war costumes 399
Armord vessels mil. eng. 623.9
[4]**Armorican language** **491.68**
Armories architecture 725.18
mil. eng. 623.48
Armor-piercing shells 623.4518
Arms
artificial 617.57
coats of college or univ. 378.27
heraldry 929.8
cross elec. engin'g 621.319224
gunmaking 683
military engineering **623.4**
science **355**
sergeant at 328.3624
war customs 399
[1]Armstrong co. Pa. hist. 974.888
Army
and navy union, regular 369.111
British 354.426
chaplains U. S. civ. war 973.778
cookery dom. econ. 641.573
corps mil. science 355.31
corps U. S. civ. war 973.7416
foren countries **354**
Army
life military science **355.1**
U. S. civil war, north 973.783
south 973.784
Great war Cent. allies 940.484
Entente " 940.483
lists foren **354**
United States 353.6
military science **355**
officials lives **923.5**
organization mil. science 355.31
posts mil. engineering 623.613
regular U. S. civil war 973.7411
regulations **355**
revivals U. S. civil war 973.778
Salvation relig. assns 267.15
United States 353.6
worm agriculture 632.77
Arna cattle 636.293
zoology 591.69
Arnaut, Dan. Prov. poet. 849.127
Arndt, E. M. Ger. poetry 831.71
Arnim, L; A. von" fiction 833.66
Arnold, Benedict
Can. exped. Am. revol. 973.3316
in Conn. " " 973.3377
naval hist. " " 973.352
treason " " 973.382
Arnold, M. Eng. essays 824.85
Arnold's ganglion anat. 611.89156
Arnulf German history 943.021
Aroideæ botany 584.64
Aromatic
compounds physiology 612.398196
plant products chem. tech. 668.5
Arondissement Fr. loc. govt 352.0445
Aroostook
[1] co. Me. history 974.11
war U. S. history 973.57
Arrangement
of duplicates lib. econ. 025.264
words Eng. syntax 425.3
[3] other languages
Arrearages law 347.7
Arrebo, Anders Dan. poetry 839.8131
Arrest
civil trials 347.9
criminal law **343**
immunity of legislators 328.348
Arresters, *see* Protectiv devices
Arrom, C. B. de F. C. 863.53

Arrow
hed inscriptions 492.1917
heds, stone prehist. arch. 571.15
Arrows archery 796
war implements 399
Ars signorum univ. lang. 408.9
Arsacidæ history 935.6
Arsenals architecture 725.18
military eng. 623.47
Arsenates mineralogy 549.72
Arsenic
drugs 615.219
inorganic chemistry 546.19
medical jurisprudence 340.6
ores 553.47
poisons 615.926
Arsenicism toxicology 615.926
Arsenids inorganic chem. 546.19
mineralogy 549.3
Arson criminal law 343
Art
anatomy drawing 743
biografy 927
christian ecclesiology 246
decorativ furniture 749
delineation of children 136.757
education 707
embroidery 746
fine 700
freedom pol. sci. 323.447
galleries 708
architecture 727.7
with libraries 021.48
gallery library bldgs 022.656
history 709
industrial useful arts 600
interior decoration 747
material lib. admin. 025.177
museums inter. affairs 351.853
needlework 746
religious 246
rudiments, prehistoric 571.7
sacred furniture 247
schools 707
studios architecture 727.7
useful 600
woman in 396.7
Arterial blood physiol. 612.113
Arteries
anatomy 611.13
blood pressure 612.143
vasomotors 612.182
Arteries
circulation in physiol. 612.133
diseases of 616.13
Artesian wells san. eng. 628.11
[1]Arthabaska co. Que. hist. 971.4565
Arthrodia anatomy 611.72961
Arthropathy pathology 616.72
Arthropoda zoology 595.2
Arthrostraca " 595.37
Arthur, C. A. presidency 973.84
Arthurian romances 398.2
Artichoke edible leaves 635.32
Jerusalem " tubers 635.24
field crops 633.494
Articles
English syntax 425.6
Greek syntax 485.6
[3] other languages
of confederation 1781–89
U. S. constitu. hist. 342.73
history 973.318
Thirty-nine Ang. creed 238.3
Articulates paleontology 565
zoology 595
Articulatio coxae anat. 611.7282
Articulations anatomy 611.72
Artificial
boundaries pol. science 320.1289
butter chem. technol. 664.3
colors " " 667.2
eyes 617.79
feeding zootechny 636.08413
flowers ornam. design 745
foods physiology 612.3929
fuel chem. tech. 662.8
horizons astronomy 522.57
ice manufacture 621.58
larynxes physiology 612.783
light perspectiv 515.63
lights chem. tech. 665
dom. econ. 644.3
lib. bildings 022.75
limbs 617.5
mineral waters ch.tech. 663.6
respiration physiol. 612.2163
stone bldg materials 691.3
chem. technol. 666.8
piers and colums 721.33
walls 721.23
teeth dentistry 617.69
Artillery
army department 358.1
gunnery mil. eng. 623.5

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Artillery
ordnance mil. eng. 623.4
U. S. civil war 973.7417
Artisans biografy 926
Artistic furniture 749
Artists biografy 927
[1]**Artois, France history** 944.27
Artotype photografy 774
Arts
and crafts 740
trades 600
fine 700
biografy of 927
grafic fine arts 700
useful 600
biografy of 926
Arundel marbles Gk inscrip. 481.7
Aryan
languages 491
literatures 891
races ethnology 572.891
Asafetida therapeutics 615.789
Asbestos
economic geology 553.67
engineering materials 620.195
fabrics domestic econ. 646.19
roofing 695.7
Ascension
of Christ christology 232.5
right theoretic astron. 521.27
Ascensions
balloon aeronautics 533.6
Asceticism 273.2
personal relig. 248
Ascidia zoology 594.9
Ascites diseases 616.38
Asclepiadeæ botany 583.73
Ascolichenes " **589.15**
Ascomycetes " **589.23**
Aseel fowls 636.58811
Asfalt
chemic technology 665.4
economic geology 553.27
engineering materials 620.196
pavements road engin'g 625.85
roofing 695.6
Ash
constituents of food 612.3926
removers steam eng. 621.18378
[1]Ashango land history 967.2
travel 916.72
[1]Ashanti history 966.7
Ashburton treaty
international law 341.2
U. S. history 973.58
Ashes
fertilizers 631.831
removal of sanitation 628.44
volcanic lithology 552.22
Ashland
[1] co. O. history 977.129
[1] Wis. history 977.521
Ashpits
locomotiv boilers 621.1332
railway engineering 625.16
steam engineering 621.18355
Ashtabula
[1] city, O. history 977.1341
[1] co. O. history 977.134
[1]Ashuanipi co. Que. history 971.419
Asia antiquities 913.5
botany 581.95
geology 555
[1] **history** 950
statistics 315
travels 915
Asia Minor
[1] **history, modern** 956
travels " 915.6
Eastern ancient hist. 939.3
Western " " 939.2
Asiatic
bantams 636.58714
cholera diseases 616.932
ducks 636.59785
languages 491–495
eastern 495
poultry 636.585
sheep 636.385
societies 490.6
swine 636.485
Asinari, F. Ital. drama 852.44
Asparagus agriculture 635.31
Asphalt, Asphaltum, *see* Asfalt
Asphyxia pathology 616.206
physiology 612.232
surgery 617.18
Aspirates Eng. language 421.2
Greek " 481.2
[3] other languages
Aspiration
pneumatic therapeutics 615.815
Ass dairy 637.172
domestic animals 636.182
zoology 599.7

[1]Assam, India history 954.1
Assassination crim. law 343
Assassins lives 923.41
Persian hist. 955
Assault and battery law 343
Assaults military eng. 623.2
sci. 355.44
Assaying 669.9
Assembly
legislativ 328
rooms library bldgs 022.651
school " 371.621
Assent logic 163
Assessment civil servis 351.6
lib. econ. 024.2
taxes 336.29
Assignats Fr. finance 336.44
" revolution 944.04
Assignments law 347.7
Assimilation of food
animals 591.133
man 612.39
plants 581.133
Assistants dom. econ. 647.2
lib. " 023.74
Assize, courts of law 347.99
Associated
press journalism 070.4312
study self education 374.2
Association
mental faculties 153.2
physiologic psychology 612.8212
public order 351.752
Associationalism philos. 149.4
Associations
bilding loan inst. 332.32
cooperation 334.1
business " 334
charitable 361
college 378.06
women 376.66
for supplying teachers 371.145
gilds 338.6
labor 331.88
library benefit 023.59
religious Y. M. C. etc. 267
see also special subject and table 2
Assurance 368
Assyria ancient history 935.2
antiquities 913.352
architecture 722.5
[4]Assyrian language 492.19
Astacidae lobsters 595.36
Asterales botany 583.53
Asteroidea zoology 593.92
Asteroids astronomy 523.44
Asteropherus, M. O.
Swedish drama 839.7222
Asthenopia
accommodativ 617.75
muscular 617.76
Asthma diseases 616.23
Astigmatism " of eye 617.75
physiology 612.8453
Astragalocalcaneal ligam't 611.72851
Astragaloscaphoid " 611.72851
Astragalus bone 611.71871
Astringents
external irritants 615.772
Astrolabe astronomy 522.41
Astrology 133.5
astronomy 520.1
Astronomers biografy 925.2
Astronomic
almanacs chronology 529.5
clocks 522.51
determinations geod. 526.6
instruments 522
maps 524
observations 522.19
maps 524
photografy 522.63
physics 521
Astronomy 520
descriptiv 523
in relation to geodesy 526.6
physical 521
practical 522
spheric 522.7
theoretic 521
Astrophysics 523
Astrophytidae star fishes 593.94
[1]Asturias, Spain history 946.1
Asylum
right of legal antiquities 340.3
Asylums
architecture 725.5
hygiene 613.56
inebriate architecture 725.65
temperance 178.6
sociology 362
Asynchronous
machines elec. eng. 621.3136
Atalanta, ship Am. rev. 973.357
Atavism evolution 575.1
Ataxia, locomotor diseases 616.83

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[1]Atchison co. Mo. history 977.811
Athanasian creed 238.1
Atheism apologetics 239
natural theol. 211
Atheists biografy 922.91
Atheneum libraries 027.2
Atheneums, Dutch educ. 379.492
Athenian suprem. Gk hist. 938.04
Athens ancient history 938.5
[1] modern " 949.5
travel 914.95
[1] co. O. history 977.197
Athletic
clubs hygiene 613.7
sports amusements 796
hygiene 613.72
interschool 371.75
school hygiene 371.74
training hygiene 613.73
Atlanta
campain U. S. civ. war 973.7371
ship U. S. war of 1812 973.5255
Atlantic
cable, *see* Telegraf
[1] co. N. J. history 974.984
ocean phys. geografy 551.461
travel 910.4
squadron U. S. civ. war 973.756
U. S. war with Spain 973.895
states
For military history of N. or S. division or individual states, see subdivisions of Special campains, and Military history under 973.3, 973.52, 973.62, 973.7 and 973.89
telegraf communication 654.5
elec. eng. 621.3828
sociology 384
Atlantis antiquities 913.39
mythology 292
orig. home of man 572.4
Atlanto-axial joint anat. 611.7215
Atlanto-odontoid joint " 611.7215
Atlas vertebra " 611.7112
Atlases
celestial astronomy 524
geografy 912
school apparatus 371.6791
see also special topics
Atlo-axoid joint anatomy 611.7215
Atmosfere
erosion 551.37
farm 631.433
Atmosfere
geologic agent 551.93
ground pub. helth 614.773
hight of astronomy 523.58
meteorology 551.5
moon 523.35
pneumatics 533.3
Atmosferic
currents 551.51
electricity 537.4
engins pneumatics 533.8
pressure " 533.4
physiology 612.27
railways 625.5
roads aeronautics 629.145
vibrations sound 534.1
Atolls physical geology 551.96
Atomic theory 541.2
weights 541.2
Atomistic philosofy 182.6
Atoms stereochemistry 541.6
theory 541.2
Atonement christology 232.3
Atrium middle ear 611.854
Atrocities, *see* Cruelties
Atrofies
muscular physiology 612.7465
of spinal cord " 612.835
skin diseases 616.54
Atropin
effect on hart physiol. 612.1741
iris mydriatics 615.784
physiol. 612.8424
saliva " 612.31342
materia medica 615.336
Attack
means of comp. physiol. 612.016
zoology 591.57
military engineering 623.2
science 355.4
Attacks
on laborers strikes 331.891
Attendance
church 264
school 371.52
Attendants lib. economy 023.794
Attention physiol. psychol. 612.8212
Atterbom, P. D. A. 839.7165
Attic
domestic economy 645.69
middle ear 611.8545
Attica Greek ancient hist. 938.5
Attitude, constraind hyg. 613.65
Attollens muscle anat. 611.7324

Attorneys law 340
lives 923.4
Attraction
capillary liquids 532.6
chemic affinity 541.39
gravity 531.5
magnetism 538
of mountains geodesy 526.14
sun and earth 523.33
Attrahens muscle anat. 611.7324
Attributes of God 231.4
Atwood sheep, Spanish 636.366
Aubanel, J. M. Prov. poetry 849.145
[1]Aube, France history 944.33
Aubergine 635.646
Aubigné, T. A. d' Fr. satire 847.34
Auburn prison system 365
Auction
catalogs author 018.3
clast 017.3
dictionary 019.3
Auctions
book library buying 025.224
business methods 658
law of 347.7
[1]Aude, France history 944.87
Audifone acoustics 534.7
Auditing 657
Audition, *see* Hearing
Auditory
acuteness physiology 612.85871
canal ear diseases 617.83
center physiology 612.85872
nerv anatomy 611.8318
physiology 612.8198
path, central anatomy 611.83181
reflexes physiology 612.8588
subjectiv sensations " 612.85873
Auditus coloratus " 612.84373
[1]Audrain co. Mo. history 977.833
[1]Audubon co. Ia. history 977.7486
societies 179.3
Auerbach, B. Ger. fiction 833.81
Auersperg, A. A. " poetry 831.77
Auger, posthole agric. 631.3113
Augeronne swine 636.443
Augier, G. V:E. Fr. drama 842.83
[1]Auglaize co. O. history 977.143
[3]Augment Gk etymology 482.8
Augsburg
confession church hist. 270.6
creeds 238.4
Lutheranism 284.1
poultry 636.538
Augury 133.3
Augustine mediev. philos. 189.2
Augustinian monks 271.4
Augustinism doctrins 230.14
Auk zoology 598.4
Auricle ear diseases 617.82
Auricles of hart anat. 611.125
Auricular
artery, posterior anat. 611.13325
confession ordinances 265.6
nerv, large anat. 611.83332
valvs, right " 611.1266
Auriculoventricular valvs 611.1264
[1]Aurora, Ill. history 977.323
Auroras 523.59
Auscultation pathology 616.074
Austen, J. English fiction 823.74
Austerlitz Europ. hist. 940.27
French " 944.05
Austin friars 271.4
[1]Austral ilands hist. 996.2
[1]Australasia " 993
Australia
administration 354.94
botany 581.994
finance 336.94
geology 559.4
[1] **history 994**
maps 912.94
schools, public 379.94
statistics 319.4
travel 919.4
other topics see table 1
Australian
ballot suffrage 324.256
sheep 636.3684
Austria
administration 354.436
antiquities 913.436
architecture 720.9436
botany 581.9436
colleges 378.436
constitutional law 342.43
education 370.9436
finance 336.436
geology 554.36
[1] **history 943.6**
laws 349.43
maps 912.436
religious history 274.36
schools, public 379.436
statistics 314.36
travel 914.36
treaties 341.2436

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Austria
zoology **591.9436**
other topics see table 1
Austrian
architecture, Romanesque 723.43
ascendancy in Italy 945.07
Netherl'ds 949.202
succession, war U.S. hist. 973.26
whites turkeys 636.5925
Authenticity of Scripture 220.1
Author
bibliografies, individual 012
catalog lib. admin. 025.3
catalogs bibliografy **018**
Authority
church and ministerial 262.8
ethics 171.1
school **371.5**
Authors
and publishers 655.52
anonymous bibliografy **014**
birthdays school observ. 371.365
individual bibliog. 012
lives **928**
rights of copyright **655.6**
law 347.7
special classes bibliog. **013**
wages **655.52**
Authorship
Bible 220.1
literary methods 029.6
Autobiografy **920**
Autocracy form of state 321.6
Auto-da-fé Span. history 946.04
" inquis. 272.2
Autodigestion of stomach 612.3234
Autoelectrolytic processes
practical chemistry 542.8
Autografs book rarities 091
Autolysis physiol. chem. 612.015349
Automata, mechanical 791
metaphysics 127
Automatic
actions of animals phys. 612.821312
checks gun mounts 623.43561
fire extinguishers 614.844
guns ordnance 623.4225
small arms 623.4424
pistols " " 623.4433
rifles small arms 623.4424
shaft-governor engins 621.1643
switchboards telefony 621.3877
Automatic
telefone systems 621.38575
telegraf elec. eng. **621.3824**
Automobile
torpedoes naval engin'g 623.95
Automobiles engin'g 629.2
Autonomy ethics 171.6
pol. sci. 320.1
Autopsy pathology 616.079
Autotomy comp. physiol. 612.0161
zoology 591.57
Autotransformers eng. 621.3144
Autotypes 773
Autumnal catarrh diseases 616.202
[1]Auvergne, France hist. 944.59
sheep 636.3421
Auxiliaries, Amer. in revol. **973.346**
[1]Ava, Burmah history 959.2
Avalanches phys. geology 551.31
Avaris ethics 174.5
Avars history 950
Avatars Brahmanism 294
Aveneae grass crops 633.286
Average
maritime law 347.7
probabilities 519.6
values, alligation 511.8
Averroes mediev. philos. 189.3
[4]Avesta, Zend language **491.52**
[5] literature **891.52**
religion 295
[1]Aveyron, France hist. 944.74
sheep 636.3468
Aviation
amusements 796
engineering **629.17**
physics 533.6
Avicenna mediev. philos. 189.3
Aviculture **636.6**
Aviets aeronautics 629.179
Avignon
council of relig. hist. 270.5
Avilla, J. de Span. letters 866.31
Avocado pear 634.653
Avoirdupois weights 389
Avon, ship U.S. war 1812 973.5255
Awnings dom. eonomy 645.3
ship outfit 623.86
Ax, grubbing 631.3116
pruning 631.3425
Axes, position of geodesy 526.16
Axilla anatomy 611.971

Axillary
artery anatomy 611.1341
glands " 611.4671
muscle " 611.7371
veins " 611.1454
Axis
bone anatomy 611.7113
cerebrospinal " 611.811
Axle physics 531.82
transmission mechanism 621.822
Axles railway engineering 625.21
Aylesbury ducks 636.59721
[1]Ayr, Scotland history 941.42
Ayrshire cattle 636.2251
Azeel fowls 636.58811
Azeglio, M. d' Ital. fiction 853.78
Azimuth
constant 522.37
determinations 526.63
instrument astronomy 522.42
Azo-bodies organ. chem. 547.8
Azoic rocks stratigraf. geol. 551.71
[1]Azores history 946.99
Azotin
fertilizers 631.848
Azoxy-bodies organ. chem. 547.8
Aztec
architecture 722.9
club of 1847 369.145
history 972.014
language 497
Azygos veins anatomy 611.1456
Baalbec ancient history 939.42
Babies, *see* Infants
Babism Moham. sect 297
Babrius Greek poetry 881.4
Babylon
ancient history 935.4
architecture 722.5
[4] **language, cuneiform 492.19**
religion 299.219
Baccalaureate sermons 252.5
colleges 378
Bacchanalia soc. customs 394.1
Bacchus mythology 292
Bachelors celibacy 176.2
Back, bursae of anatomy 611.753
Backbone anatomy 611.711
Backgammon
ethics 175.5
games 795
Backsight ordnance 623.4251
Backstitching dom. econ. 646.21
Bäckström, P. J. E. 839.7266
Bacon, Francis
British philosofers 192.1
empiricism 144
English essays 824.3
Baconian philosofy 192.1
Bacon's rebellion Va. hist. 975.5
Bacteria
agriculture beneficial 631.8472
injurious 632.3
botany 589.95
fermentation 663.1
theory of diseases 616.01
Bactericidal properties of
blood physiology 612.118223
Bacteriology
of intestin physiology 612.3363
saliva " 612.31363
soil agriculture 631.46
stomach physiology 612.3263
pathology 616.01
[4]**Bactrian, Old language 491.52**
Bactriana ancient hist. 939.64
Bad social customs hyg. 613.87
[1]Baddeck, N. S. history 971.693
[1]Baden, Germany history 943.46
Badges heraldry 929.8
Badminton games 796
Baffin bay travels 919.8
Bagatelle amusements 794
[1]Bagdad history 956.7

Bagging manufacture 677
Baggesen, Jens Dan. poetry 839.8156
[1]Bagot co. Que. history 971.4525
Bagpipe 788.9
Bags
agriculture 631.3721
manufacture 677
[1]Bahamas history 972.96
travel 917.296
Baïf, J: A. de Fr. poetry 841.36
L.de Fr. drama 842.32
Bail criminal law 343
Bailiffs local gov't 352.2
Baillie, Joanna Eng. drama 822.71
Bailments 347.4
Bain automatic telegraf 621.38241
Bait for specimen collecting 579.611
Bakauner swine 636.432
Baker shorthand 653.35
Bakers' occupation hygiene 613.64
Bakewell's Leicester sheep 636.3211
Bakies, Scotch 636.528
Baking
cookery 641.71
powder adulterations 614.315
chem. tech. 664.6
Bakonyer swine 636.432
Balance
bridge engineering 624.35
frame cultivator 631.3163
machines 531.81
metrology 389
of power polit. science 320.1
trade commerce 382
spring watchmaking 681
Balanced courses educ. 375.005
plow 631.3122
Balancers elec. eng. 621.31327
Balances, chemic 542.32
Balancing
apparatus aviation 629.186
ballooning aeronautics 629.166
machinery shipbilding 623.87
running gear railrd eng. 625.21
Balanophoreæ botany 583.947
Balanopseæ " 583.961
Balbo, Cesare Ital. essays 854.74
Balbóa discov. of Amer. 973.16
Balconies, sleeping
furnishing dom. econ. 645.67
location " " 643.57
Balcony furnishings 645.8
Baldi, Bernardino It. poet. 851.47
Baldness dermatology 616.54
Bale, J: English drama 822.23
[1]Balearic Islands history 946.7
Balers 631.3632
Baling 631.5642
[1]Balize history 972.82
travels 917.282
[1]Balkan states history 949.6
Ball
and socket joint anat. 611.72963
bearings engineering 621.822
strength 620.11284
playing amusements 797
school hygiene 371.74
Ballads
Danish poetry 839.8112
[5] English literature 821.04
song books 398.8
Swedish poetry 839.7114
vocal music 784.3
Ballast railway engin'g 625.14
transportation 656
Ballers 631.3361
Ballet amusements 792
ethics 175.2
Ballistics
exterior mil. engin'g 623.54
interior " " 623.53
Balloon
sonde aeronautics 629.151
Ballooning aeronautics 629.15
military 623.741
physics 533.6
Ballot suffrage 324.25
Balloting
legislativ procedure 328.375
see also distinctiv name
Ballots
count of suffrage 324.261
miscount of " 324.275
Ballroom furnishings 645.69
Ball's Bluff, Va. U. S. hist. 973.7318
Balls
dancing 793
domestic economy 642.43
ethics 175.3
projectils ordnance 623.45111
small arms 623.4551
Balm garden crop 635.73
Balms field " 633.816
[1]Baltic provinces, Rus. hist. 947.4
sea phys. geog. 551.461
travels 914.74

[1]Baltimore city history 975.26
travels 917.526
[1] co. Md. history 975.271
riot U. S. civil war 973.7313
[1]Baluchistan history 958.8
Balustrades arch. design 729.39
Balzac, H. de Fr. fiction 843.73
Bamboo fibers 633.587
Bambuseae grass crops 633.289
Bampton holts sheep 636.3217
lectures 239.01
Banana agriculture 634.772
See also distinguishing name
Band
irons plumbing 696.7
saws machine tools 621.93
Bandages surgery 617.93
therapeutics 615.813
Bandello, Matteo Ital. fic. 853.32
Banditti biografy 923.41
law 343
[1]Banff, Scotland hist. 941.24
[1]Bangkok history 959.3
travel 915.93
Bangorian controversy 283.42
Banishment crim. law 343.2
Banjo 787.7
Bank
note engraving 768
notes counterfiting 332.9
money 332.5
of England economics 332.15
the U.S. " 332.11
U.S. national U.S. hist. 973.41
Bankers biografy 923.3
Banking 332.1
Bankrupt laws 347.7
Bankruptcy 347.7
Banks
and banking law 347.7
architecture 725.24
cooperativ cooperation 334.2
political economy 332.1
savings banking 332.2
state control 351.825
Banners heraldry 929.9
sacred ornam'ts 247.9
Banquets
domestic economy 642.45
social customs 394.1
student life 371.89
Bantams 636.5871
Banting dietetics 613.24
Banville, T.F. de Fr. poet 841.83
Baptism of infants 265.1
sacrament 265.1
Baptismal
fonts sacred furniture 247.1
regeneration salvation 234.4
Baptisms registers of 929.3
Baptistery sac. furniture 247.1
Baptists 286
biografy 922.6
persecution by Puritans 272.8
Bar
association 347.06
keeper's manuals 663.8
legal 340
biografy 923.4
tending ethics 178.4
[1]Baraga co. Mich. history 977.497
Barb horse 636.11
pigeon 636.59614
[1]Barbados history 972.98
travels 917.298
gooseberry 634.7757
Barbarians
antiquities see country
invasion of Rome 937.09
N. American indians 970.1
prehistoric archeology 571
S. American indians 980
war customs 399
Barbarins sheep 636.3469
Barbarism vs church 261.3
Barbarisms Eng. lang. 428.3
[3] other languages
Barbarities, *see* Cruelty
[1]Barbary States history 961
wars U.S. hist. 973.47
Barbd wire manufacture 672
Barberini vase pottery 738
Barberino, F. da Ital. fic. 853.12
Barberry 634.746
Barbers 391.5
Barbet
armor shipbilding 623.9
mounts ordnance 623.4332
Barbézieux poultry 636.544
Barbier, H.A. Fr. satire 847.72
Barbizon school painting 759.4
Barbour, J: Eng. poetry 821.16
[1]Barbour co. W. Va. hist. 975.459
[1]Barcelona history 946.7
travel 914.67
Barclay, A. Eng. satire 827.21

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Bards and minstrels
English literature 821
French " 841
German " 831
[5] other literatures
Bare wire elec. engin'g 621.31932
Barebones parliament 942.064
Baretti, G. Ital. satire 857.65
Barges shipbilding 623.829
Barium inorganic chem. 546.43
Bark grafting 631.54136
Barley agriculture 633.16
brewing 663.3
Barlow, Joel Am. poetry 811.23
Barnacles zoology 595.35
Barns agriculture 631.22
architecture 728.95
[1]Barnstable co. Mass. hist. 974.49
[1]Baroda, India history 954.7
Barometer pneumatics 533.4
Barometric
leveling geodesy 526.37
pressure mesology 612.01441
physiol. effects 612.27
respiration 612.2232
Barometry hypsometry 551.53
meteorology 551.54
Baron, M.B. Fr. drama 842.48
Baronage heraldry 929.7
Baronetage " 929.7
Barons war Eng. hist. 942.034
Baroque style architec. 724.19
Barracks architecture 725.18
hygiene 613.67
military eng. 623.612
Barrages engin'g 627.1
Barrel organs music 789.9
Barrels agriculture 631.5644
manufacture 674
Barricade military eng. 623.15
Barrier forts military eng. 623.134
Barriers elec. engineering 621.3177
Barrili, A.G. Ital. fiction 853.82
[1]Barron co. Wis. history 977.518
Barrows, British archeol. 571.92
hand 631.3721
shorthand 653.73
[1]Barry co. Mich. history 977.416
[1] Mo. " 977.876
Bars harbor engineering 627.1
strength of materials 620.11282
Barter commerce 380
zootechny 636.08113
Barthélemy, A.M. Fr. sat. 847.71
Bartholin, Kaspar Dan. lit. 839.883
T: " " 839.883
Bartholini's glands anat. 611.677
phys. 612.494
Bartholomew
[1] co. Ind. history 977.224
fair public customs 394.6
St religious persecu. 272.4
Bartoli, D. Italian essays 854.53
[1]Barton co. Mo. history 977.871
Baruch Apocrypha 229.5
[4]Bas Breton language 491.68
Basalt geology 552.28
Bascule bridges engin'g 624.82
Base
line geodesy 526.24
mesures, adjust. of geod. 526.57
mesuring " 526.2
Baseball amusements 797
school hygiene 371.74
Bases
library furniture 022.915
qualitativ analysis 544.12
theoretic chemistry 541.4
wage political econ. 331.23
walls 721.25
Bashan ancient history 939.46
Bashfulness ethics 179.9
Basidiolichenes botany 589.11
Basidiomycetes " 589.22
Basilar
arteries anatomy 611.1349
phalanges of foot " 611.71891
hand " 611.71791
Basilic veins " 611.145462
Basilica architecture 726.5
Roman antiqui. 913.37
Basilican code law 349.37
[1]Basilicata, Italy history 945.77
Basilisk legends 398.2
zoology 598.11
Basin
docks shipbilding 623.83
Basins
catch sewers 628.255
filter waterworks 628.16
physical geografy 551.43
Basis pedunculi anat. 611.81542
Basket ball games 796
fibers 633.58
Basketry
elementary education 372.55

Basketry
manufactures 674
ornamental 745
prehistoric 571.53
Baskets
balloon aeronautics 629.162
packing agric. 631.5644
appliances " 631.3644
transport " 631.3731
[1]Basle history 949.4
travel 914.94
Basque
[4] **language** **491.69**
[5] **literature** **891.69**
[1] provinces history 946.6
sheep 636.3461
[1]Basra history 956.7
Bas-relief sculpture 736
Bass fishing 799
zoology 597.5
Bass clarinet wind instrum. 788.6
horn " " 788.48
Basses
[1] Alpes, France history 944.95
[1] Pyrénées " " 944.79
Bassethorn music 788.6
Bassoon " 788.8
Bastardy law 347.6
Bastile prisons 365
French history 944.041
Bastions fortifications 623.116
Batata 635.22
[1]Batavia history 992.2
travel 919.22
Batavia system educa. 371.394
[1]Bates co. Mo. history 977.843
Bath, order of the heraldry 929.71
Bathing
customs 391.6
domestic economy 646.7
hygiene **613.41**
school hygiene 371.735
suits dom. econ. 646.47
Bathroom furnishings 645.68
location 643.52
Baths
admin. of medicin by 615.67
antipyretics 615.75
antiquities Greek 913.38
Roman 913.37
architecture 725.73
hydrotherapy 615.853
hygiene **613.41**
nutritiv hygiene 613.23
Baths
physiologic effects 612.541
practical chemistry 542.4
Batideæ botany 583.916
Batrachia **paleontology** **567.6**
zoology **597.6**
Bats " 599.4
Battalion mil. science 355.31
drill " tactics 356
Batteries
advancing siege works 623.23
electric **engineering** **621.354**
physics 537.86
floating naval eng. 623.9
military **mil.** " **623.4**
storage elec. " 621.354
Battering ram war customs 399
Battery
carriages ordnance 623.4316
tools mil. engin'g 623.461
[1]Battle Creek, Mich. hist. 977.422
Battle
paintings 756
wager of legal antiq. 340.3
Battledoor outdoor sports 796
Battleflag day U.S.civ.war 973.763
Battles
Great war 1914–19 **940.42**
land military science 355.48
naval naval " 359
U. S. history **civil war** **973.73**
Mex. " **973.623**
revolution **973.33**
Span. war 973.893
war of 1812 **973.523**
see also hist. of other countries
Battleships shipbilding 623.825
Baude, Henri Fr. poetry 841.24
Baudot printing telegraf 621.38255
Bauxite econ. geology 553.49
metallurgy 669.7
[1]**Bavaria** **history** **943.3**
travels **914.33**
[1] Lower history 943.35
travels 914.335
[1] Rhenish history 943.43
travels 914.343
[1] Upper history 943.36
travels 914.336
Bavarian swine 636.431
sheep 636.3333
Bay
[1] City, Mich. history 977.447

Bay
[1] co. Mich. history 977.447
of Bengal phys. geog. 551.467
windows architec. design 729.38
Bayeux tapestry decoration 746
[1]Bayfield co. Wis. hist. 977.513
Bayonet
drill mil. science 356
hoe 631.3151
military efficiency 623.4443
wepons 399
Bays hydrografy 526.99
Beaches, formation of 551.36
Beacons navigation 656
river engin'g 627.9
Beaconsfield Eng. fict. 823.86
Beads
archeology 571.74
blowpiping prac. chem. 542.52
decoration 746
devotional 247.9
ornaments 391.7
Beadwork 746
Beagle expedition 508.3
Beakers prac. chem. 542.231
Beam
and scales metrology 389
side-lever engins 621.1222
Beams
bilding 694
iron bridgebilding 624.22
strength of materials 620.11282
strengthend carpentry 694.3
wood bridgebilding 624.222
Bean
family fruit culture 634.46
harvesters 631.3563
shellers 631.3614
Beans field crops 633.3
garden " 635.65
gathering 631.5563
Bearbaiting customs 394.2
Beards " 391.5
Bearings
engineering 621.822
steam turbin design 621.16539
[1]Béarn, France history 944.79
Béarnaise sheep 636.3462
swine 636.445
Beasts
agriculture 636
zoology 599
Beatitudes Gospels 226.2
[1]Beauce co. Que. history 971.471
[1]Beauharnois co. Que. " 971.432
Beaumarchais Fr. drama 842.58
Beaumont, F. Eng. drama 822.35
[5]Beauties, select'ns Eng. lit. 828
Beauty esthetics 701
personal " 701
Beaux social ethics 177.6
[1] Beaver co. Pa. history 974.892
Beaver animals 599.3
Beccaria, C. B. Ital. essays 854.65
Beccuti, Francesco " satire 857.42
[1]Bechuanaland history 968.9
travels 916.89
Becquerel rays chemistry 541.38
mesology 612.014482
Bed
room furnishings 645.67
wagon aid to injured 614.883
warmers 644.19
Bedbugs animal parasites 616.9681
household pests 648.7
zoology 595.75
Bedding domestic econ. 645.67
hygiene 613.591
zootechny 636.0832
[1]Bedford co. England history 942.56
[1] Pa. " 974.871
Bedouin sheep 636.385
Bedouins
Arabian history 953
travel among 915.3
Beds
domestic economy 645.67
hygiene 613.591
Beecher, H: W. Am. orat'y 815.36
Beef
cattle Belgian 636.242
Dutch 636.232
English 636.222
French 636.242
German 636.232
Swiss 636.232
cure therapeutics 615.854
food 641.3
production agriculture 636.2
economics 338.1
Bee-keeping 638.1
Beer
adulterations 614.344
analysis, chemic 543.1
drinking ethics 178.1
manufacture 663.4

Bees
culture 638.1
insects 595.79
pests 632.79
wax agriculture 638.1
Beet lifters 631.3584
sugar chem. technol. 664.1
Beethoven's
overtures 785.5
sonatas piano music 786.41
symphonies orches. " 785.1
Beetles
insects 595.76
paleontology 565.76
pests agriculture 632.76
Beets, N. Dutch essays 839.3454
Beets
garden crops 635.11
field crops 633.41
See also distinguishing name
zootechny 636.08641
Beggar weed 633.365
Beggars charity 177.7
pauperism 339
Begging pub. administra. 351.763
Begoniaceæ botany 583.468
Behaim, M. disc. of Am. 973.11
Behavior 177
Beheading punishments 343.2
Behemoth
Bible 220.859
folklore 398.4
Behistun inscription 492.1917
Behn, Aphra Eng. fiction 823.44
Behring, *see* Bering
Being, nature of ontology 111
Beispiele German satire 837.21
Bel and the dragon Apocr. 229.6
Bel
book and candle church 262.9
glasses forcing 631.5441
protection 631.3441
ringing 789.5
system education 371.41
shorthand 653.42
Belcari, F. Ital. drama 852.21
[1]Belfast history 941.61
travels 914.161
[1]Belfort, France history 944.45
Belgian
cattle 636.24
draft horse 636.1548
[1] Kongo history 967.5
poultry 636.548
Belgium administration 354.493
antiquities 913.493
architecture 720.9493
botany 581.9493
colleges 378.493
constitution. law 342.493
education 370.9493
finance 336.493
geology 554.93
[1] history 949.3
laws 349.493
maps 912.493
religious history 274.93
schools, public 379.493
statistics 314.93
travel 914.93
treaties 341.2493
zoology 591.9493
other topics see table 1
Belief salvation 234
theory of knowl. 121
[1]Belize history 972.82
travels 917.282
[1]Belknap co. N. H. hist. 974.24
Bell, *see* Bel
Belladonna
cerebrospinal poisons 615.98
mydriatics 615.784
Bellamy, J. Dutch poetry 839.3146
Belleau, Remy Fr. " 841.33
[1]Bellechasse co. Que. history 971.473
Belles-lettres 800
[1]Belleville, Ill. history 977.389
Belligerents, rights of 341.3
Bellman, K:M. Swed. poet. 839.7151
Bellows prac. chem. 542.53
Bells, *see* Bels
Bell's respiratory nerv 611.83336
Belmont
battle U. S. civil war 973.751
[1] co. O. history 977.193
[1]Beloit, Wis. history 977.588
[1]Beloochistan " 958.8
Bels
diving hydraulic eng. 627
domestic economy 643.6
manufacture 673
music 789.5
signals 654.7
Belt conveyers mech. eng. 621.8675
courses walls 721.25
equatorial 525.14
waterline shipbilding 623.9
Belted cattle 636.2354

Belting mech. eng. 621.852
Belts
domestic economy 646.48
of Jupiter descr. astron. 523.45
Bembo, Pietro Ital. poetry 851.31
Bemis Heights Amer. rev. 973.3333
[1]Benares history 954.2
travel 915.42
Bench and bar biografy 923.4
Benches
cutting agriculture 631.335
school 371.631
Benches school 371.631
Bending machines 621.982
Bends hydraulics 532.55
Benedetti, F. Ital. drama 852.67
Benedictine monks 271.1
Benediction 264.9
Benedictus sacred music 783.22
Benedix, J. R. Ger. drama 832.81
Benefactors biografy 923.6
Beneficence ethics 177.7
Benefices cleric support 254
Benefit
of clergy legal antiq. 340.3
societies insurance 368
Benevolence ethics 177.7
Benevolent
institutions 361
societies 361
parish work 256
Bengal
bay of phys. geografy 551.467
[1] India history 954.1
[4]Bengali language 491.44
Bengel burners prac. chem. 542.44
[1]Benguela history 967.3
Benivieni, G. Ital. poetry 851.25
Bennington, Vt. battle 973.3332
[1] co. Vt. hist. 974.38
Benserade, I. de Fr. satire 847.44
Bent grass agriculture 633.23
[1]Benton co. Ind. history 977.297
[1] Ia. " 977.761
[1] Mo. " 977.839
Benzenes organ. chem. 547.26
[1]Benzie co. Mich. hist. 977.463
Benzoin perfume plants 633.816
Benzole light chem. tech. 665.7
Beowulf Anglo-Sax. poet. 829.3
Bequests law 347.6
library 021.94
Beranger, P. J. de Fr. poet. 841.71
Berber sheep 636.386
Berberideæ botany 583.117
Berbers description 916.1
Berceo, G. de Span. poetry 861.13
Berchet, G. Italian " 851.71
Bereft charities 362.6
Bergamot perfume plants 633.813
lime fruits 634.342
[1]Bergen, Norway hist. 948.3
[1] co. N. J. " 974.921
Bergh, H. van den 839.3252
Bergklint, O. Swed. poetry 839.7147
Bergman, T. O. " misc. 839.7848
Bergmasker sheep 636.35
Bergschlag swine 636.432
Bering
sea arbitration U.S.hist. 973.87
treaty " 973.86
strait travel 917.98
Berkeley, G: Brit. philos. 192.3
idealism 141
[1]Berkeley city, Cal. history 979.467
[1] co. W. Va. hist. 975.497
[1]Berks co. England history 942.29
[1] Pa. " 974.816
[1]Berkshire co. Mass. hist. 974.41
Berkshire Knot sheep 636.3232
swine, black 636.4261
red 636.4263
Berlier sewerage system 628.215
[1]Berlin history 943.15
travels 914.315
congress internat. law 341.1
decree " " 341.3
Bermuda
grass forage crops 633.261
Hundred U. S history 973.7365
[1]Bermudas history 972.99
travel 917.299
Bernadotte Swedish hist. 948.07
Bernardines monastic ord. 271.79
Bernart de Ventadorn
Provençal poetry 849.125
[1]Berne history 949.4
travels 914.94
Bernese cattle 636.2373
Berni, F. Italian satire 857.32
Beroalde de Verville, F.
French fiction 843.36
Berrichonne sheep 636.3441
[1]Berrien co. Mich. history 977.411
Berries fruits 634.7
[1]Berry, France history 944.55

Berseem forage crops 633.32
Bersezio, V. Ital. drama 852.81
[1]Berthier co. Que. history 971.443
Bertillon system anthropol. 573.6
[1]Berwick, Scotland history 941.45
Beryllium inorgan. chem. 546.45
Beskow, B. von Swed. lit. 839.7262
Bessel's
base mesuring apparatus 526.22
deduction L. M. Z. formu. 526.47
determ. of earth's figure 526.15
functions 517.35
Bessemer
process metallurgy 669.1
steel engin'g materials 620.17
Best reading **028**
Betel botany 583.925
narcotics 613.85
Bethel ch. Va. U.S. civ. war 973.7313
Beton
chemic technology 666.8
construction masonry 693.5
engineering materials **620.13**
Betrothal customs 392.4
Betterments law 347.2
Bettinelli, S. Ital. essays 854.61
Betting ethics 175.9
news journalism 070.446
lib. econ. 024.58
Beverages
adulterations **614.34**
alcoholic hygiene 613.81
temperance **178**
hygiene **613.3**
manufacture **663**
recipes 641.87
water hygiene **613.31**
Beyle, M. H. French fiction 843.71
Bézique amusements 795
Bezoar stones medicin 615.89
Bhagavat Ghita Sans. lit. 891.2
Bhains cattle 636.293
[1]Bhotan, India history 954.1
Bible **220**
and science apologetics 239.8
antiquities 220.93
Jewish 913.33
classes Sunday schools 268
Y. M. C. A. 267.3523
cyclopedias 220.3
dictionaries 220.3
geografy 220.91
anc. geog. 911.33
Bible
history 220.95
Jewish history 933
in public schools educ. 377.1
legends of 398.1
revision English 220.52
societies 206
Bibliofiles biografy 920.1
Bibliofily **010**
Bibliografers biografy 920.1
Bibliografies general 011
Bibliografy **010**
national **015**
of special authors 012
subjects **016**
Bibliomania bibliografy **010**
Bicameral legislature 328.392
Biceps
brachii anat. 611.73721
femoris " 611.73827
Bicuspid valvs anat. 611.12642
Bicycle
amusements 796
manufacture 629.2
rinks architecture 725.86
room lib. bildings 022.687
Bids bilding 692.4
Biehl, C. D. Dan. drama 839.8251
Biennial legislation 328.353
Big Bethel, Va. battle 973.7313
Bigamy ethics 173.2
law **343**
Bigelow's ligament anat. 611.7282
Bignoniaceæ botany 583.84
Bigotry ethics 179.8
Bijns, Anna Dutch poetry 839.3122
Bil hook agriculture 631.3424
Bilderdijk, Wil. " 839.3151
Bilding **690**
accidents inter. affairs 351.781
accounts, supervision of 692.7
architecture **720**
associations coopera. 334.1
loan insti. 332.32
construction history of 690.9
contracts 692.9
laws, bilding 692.9
protection of life 614.85
rent of land for 333.6
stones econ. geol. **553.5**
materials 691.2
Bildings
buttermaking 637.231

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Bildings
dairy 637.131
farm **631.2**
hight of public helth 614.784
inspection of 614.85
library **022**
architecture 727.8
lib. admin. 025.9
military engineering **623.6**
out architecture **728.9**
public " **725**
local government **352.5**
transit astronomy 522.13
Y. M. C. A. **267.32**
architecture **726.9**
zootechny 636.0831
Bile
ducts absorption in 612.35772
anatomy **611.361**
obliteration of 612.35765
physiology **612.3577**
effect of pancreatic juice 612.34251
physiology **612.357**
therapeutics 615.742
with gastric juice physi. 612.3226
Biliary
acids physiology 612.35715
calculi " 612.35764
surgery 617.43
excretion physiology **612.3577**
fistulas " 612.35711
pigment " 612.35713
in urin physi. 612.46667
salts " 612.35715
secretion animals 591.148
secretion man **612.3573**
substances, abnormal 612.35769
Bilious fever diseases 616.36
Biliousness " 616.36
Bill
hook agriculture 631.3424
of exchange banking 332.45
law 347.7
rights English 342.429
Billiard
room furnishings 645.69
library bldgs 022.664
saloons architecture 725.84
Billiards ethics 175.4
game 794
Billings, Josh Am. humor 817.46
Billon coins and coinage 332.41
Bills
and notes law 347.7
Bills
checking lib. econ. 025.234
legislativ before passage **328.374**
passage 328.375
procedure **328.373**
of credit law 347.7
mortality statistics 312
pub. helth **614.12**
sale law 347.3
Bilt-up guns 623.4216
Bimana mammals 599.9
Bimetallism coinage 332.42
Binary stars astronomy 523.84
vapor engins 621.44
Binaural hearing physiol. **612.85875**
Binders
agriculture 631.3541
library employees 023.771
temporary lib. fittings 025.7
Binding
book library 025.7
mechanic trades 686
publishers' 655.53
rare 095
posts elec. eng. 621.3526
[1]Binghamton, N. Y. hist. 974.776
Binocular
vision optics 535.7
physiology 612.8462
Binomial theorem algebra 512.4
Biogenesis zoology **591.16**
Biografic
sermons biografy **920**
homiletics 252.9
Biografy **920**
New testament 225.92
of educators **923.7**
hist. of educ. 370.92
of gipsies 397
indians 970.2
pirates 923.41
slaves 326.92
Old testament 221.92
scriptural 220.92
Biologic laboratories archi. 727.5
Biology **570**
Biometry life insurance 368.3
Bion Greek lyric poetry 884.7
Biondi, L. Ital. drama 852.66
Bionomics 575.3
Bioplasm 576.2
Biplanes aeronautics 629.174
Birch-Pfeiffer, C. Ger. dram. 832.74
Bird day, school 371.365

Birds **598.2**
agricultural aids 632.96
pests 632.698
cage domestic pets 636.686
diseases of 619.6
egs oology 598.2
flight aerodynamics 629.142
comp. physiology 612.768
migration 591.52
game sports 799
nests of zoology 598.2
paleontology **568.2**
poultry **636.5**
protection 179.3
[1]Birmingham, Eng. history 942.48
travels 914.248
Birth
customs 392.1
growth after physiol. 612.65
marks 617.3
obstetrics **618.2**
rates public helth 614.11
Birthday customs 392.1
Birthdays, public schools 371.365
Births
registers of 929.3
registration pub. helth 614.11
statistics **312**
Bischarin sheep 636.386
Bishop shorthand 653.74
Bishops
ecclesiastic polity 262.3
in legislativ bodies 328.3324
lives of **922**
Bismuth
drugs digestiv system 615.735
external agents 615.776
inorganic chemistry 546.87
Bismuthides mineralogy 549.3
Bison cattle 636.292
hunting 799
zoology 599.7
Bissell bogies railway eng. 625.21
Bisticci, V. da Ital. essays 854.23
Bithynia anc. history 939.25
[1]Bitlis history 956.6
Bitters aids to digestion 615.7341
vegetable drugs 615.337
Bitumen economic geol. 553.24
Bituminous coal 553.24
shale 553.23
Bivalvs paleontology 564.1
zoology 594.1
Bixineæ botany 583.138
Björnson, B. Norweg. fic. 839.8367

Black
art magic 133.4
boards school fittings 371.631
cap raspberry 634.7112
Cayuga duck 636.59782
currant 634.723
See also distinguishing name
deth plague 614.49
draft horse 636.1523
duck, big 636.59782
[1] Forest, Germany hist. 943.48
trav. 914.348
friars Dominicans 271.2
Hawk war U. S. hist. 973.562
hills, S. Dak. geology 557.83
[1] history 978.3
paleon. 560.9783
travel 917.83
hole, Calcutta 954.1
huckleberry 634.732
medic 633.31
monks Augustinians 271.4
Benedictines 271.1
Norfolk turkey 636.5927
raspberries 634.713
salsify 635.166
sea travels 914.77
Spanish fowls 636.563
swine, English 636.421
turkey 636.5927
walnut 634.512
Welsh cattle 636.2236
Blackberry 634.713
Blackfaced sheep 636.3252
[1]Blackford co. Ind. hist. 977.268
trav. 917.7268
[1]Blackhawk co. Ia. hist. 977.737
Blacking chem. technol. 667.8
Blacklisting
labor strikes 331.894
Blackmail law 343
legislativ abuses 328.367
journalism 070.16
Blacksmithing **682**
Blad apple 634.7757
Bladder anatomy **611.621**
diseases 616.62
physiology 612.4671
air comp. anat. 611.29
physiology 612.767
gall anat. 611.366
physiology 612.35771
swimming comp. anat. 611.29
phys. 612.767

Bladensburg U.S.war 1812 973.5238
[1]Blair co. Pa. history 974.875
Blanc, Mont travels 914.449
Blanche, A. T. Swed. dram. 839.7263
Bland silver act U.S. hist. 973.83
Blanket ballot suffrage 324.254
Blankets zootechny 636.08361
Blanks laborsavers 029.2
library 025.121
for special purpose see subject
Blasphemy ethics 179.5
law 343
Blast
furnace engin'g works 621.76
metallurgy 669.8
prac. chem. 542.42
Blasting agriculture 631.513
mining eng. 622.23
submarine 622.23
Blastopore embryology 611.01334
Blastula " 611.013314
Blazonry heraldry 929.8
Bleachers' occupation hyg. 613.62
Bleaching 667.1
Bleeding therapeutics 615.811
wounds **617.14**
Blemishes domestic animals 636.08115
Blicher, S. S. Danish fic. 839.8362
Blights agriculture **632**
bacteria 589.95
Blind
asylums architecture 725.54
sociology 362.4
education of 371.911
libraries for 027.6
observat'n of congenitally 612.84375
printing for 655.38
schools " 371.911
Blindage mil. eng. 623.24
Blind-def education 371.913
Blindness 617.7
Blinds arch. construc. 721.87
Blisters therapeutics 615.774
Blizzards meteorology 551.55
Block books 092
[1] Island, R. I. hist. 974.58
trav. 917.458
pavement reinforced 625.87
stone 625.82
wood 625.83
vote suffrage 324.222
Blockade internat. law 341.3
U. S. civ. war 973.758

Blocks, patent printing 655.22
reinforced roads 625.87
Blood
changes in respiration **612.23**
diseases 616.15
examination 616.076
fertilizers 631.845
histology 611.0185
letting therapeutics 615.811
making physiology 612.119
muscular irritability 612.7416
physiology **612.1**
poisoning diseases **616.94**
leucocytes 612.1126
red corpus. 612.1114
pressure physiol. **612.14**
purification " **612.23**
serum, albuminoids of 612.39812
sugar of physiol. 612.35212
transfusion " 612.1163
therapeutics 615.65
vessels anatomy **611.1**
embryology 611.01368
sympath. syst. 612.899
zoology 591.11
Bloody assizes Eng. hist. 942.067
Bloomer costume 391.2
[1]Bloomington, Ill. history 977.359
Blowing engins **621.6**
Blowout valvs steam eng. 621.18479
Blowpipe
apparatus **542.5**
Blowpiping
mineralogy 549.1
qualitativ analysis 544.3
quantitativ " 545.4
rock analysis chem. 543.6
Blue
Andalusian fowls 636.564
books lists of officers 351.2
parliamentary **328.42**
United States **328.73**
glass therapeutics 615.831
grass 633.21
gray cattle 636.2232
language univ. lang. 408.9
laws Connecticut 345.22
prints photografy 771
Swedish duck 636.59723
tangleberry 634.731
vegetable dyes 633.862
Blueberry 634.73
See also distinguishing name

Bluing laundry process 648.27
supplies 648.18
Blumauer, Aloys Ger. sat. 837.62
Blunderbus firearms 623.441
Blunders Eng. language 428.3
[3] other languages
etiquet 395
Board
of helth city gov't 352.4
medicin **614**
reports of **614.09**
sanitary eng. **628**
trade architecture 725.25
reports 381
Boarding schools architec. 727.2
educa. 373.2
Boards timber 674
Boat
bilding **623.8**
bridges engineering 624.87
houses architecture 725.87
racing ethics 175.7
school hygiene 371.75
Boating amusements 797
Boats
life, *see* Life boats
shipbilding **623.8**
wharf architecture 725.34
see also qualifying words
Boccaccio, Giov. Ital. fic. 853.15
Bodel, Jean French dram. 842.13
Bodenstedt, F; M. Ger. lit. 831.84
Bode's law astronomy 523.21
Bodily strength athletics 613.72
Bodleian library 027.742
Bodmer, J; J. Ger. poetry 831.58
Bödtcher, L. Dan. poetry 839.8166
Body
and mind **130**
care of hygiene **613**
nursery 649.4
school hygiene **371.73**
cleanliness of hygiene **613.4**
congenital defects " 613.91
development childstudy 136.71
physiol. **612.6**
mental influence cures 615.851
mesurements of 573.6
natural and spiritual 233.5
symmetry of art anat. 743
temperature of physiol. **612.56**
training of hygiene 613.73
weight anthropometry 573.6
Boendale, J. van Dut. misc. 839.381
Bœotia ancient history 938.4
Boer war 968.2
Boers history 968
Boethius Provençal poet'y 849.111
Bog iron ore 553.3
Bogies folklore 398.4
railway engin'g 625.21
[1]Bohemia history 943.71
travel 914.371
Bohemian
brethren sects 284.3
Bohemian fowls 636.537
[4] **language** **491.86**
[5] **literature** **891.86**
Bohemianism customs 394
Bohlen lectures 239.04
Böhme medieval philos. 189.5
Boileau-Despréaux, N. 847.46
Boiler
accidents pub. helth 614.837
steam eng. 621.1947
construction **621.1845**
economy steam eng. 621.18413
explosions " " 621.1947
fuels " " **621.1822**
houses " " **621.192**
inspection pub. helth 614.837
steam eng. 621.1947
management " " **621.194**
plants " " **621.19**
setting steam eng. 621.18456
shop engin'g works 621.792
Boilers **621.184**
insurance 368.7
locomotiv **621.133**
portable engin 621.153
traction engin 621.143
Boiling
cookery 641.73
heat 536.44
points chemistry 541.36
practical chemistry 542.48
Boils diseases 616.52
Bojardo, M. Ital. poetry 851.22
Boker, G: H. Am. drama 812.33
[1]Bokhara history 958.6
sheep 636.385
Bolak universal lang. 408.9
[1]Bolivia history 984
Bollandists mon. orders 271.5
Bolle ram hydraulic mach. 621.272
[1]Bollinger co. Mo. history 977.894
[1]Bologna history 945.4
travels 914.54

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Bolometer thermometry 536.51
Bolshevism Rus. hist. 947.08
sociology 335
Bolting pol. parties 329
Bolts
machinery 621.882
strength of materials 620.11287
track railway engin'g 625.15
Bombardon wind instr. 788.8
Bombards ordnance 623.4211
[1]Bombay, India history 954.7
travel 915.47
Bombs
dynamite chem. tech. 662.2
military engineering 623.45112
Bon Homme Richard 973.355
Bonaparte
Joseph in Spain 946.06
Napoleon consulate 944.046
empire 944.05
[1]Bonaventure co. Que. history 971.478
Bonbons cookery 641.85
[1]Bond co. Ill. history 977.387
Bondage slavery 326
Bonded warehouses arch. 725.14
Bonding elec. engineering 621.3334
Bonds
and stocks 332.6
civil trials 347.91
criminal law 343
finance 336.31
insurance of 368.8
municipal 332.5
of brick work masonry 693.21
stone " " 693.11
public schools 379.13
Bone
boiling air pollution 614.742
caves prehist. archeol. 571.81
chemic composition 612.751
engineering materials 620.199
fertilizers 631.852
histology 611.01841
implements archeology 571.52
Bones
descriptiv anatomy 591.79
diseases of 616.71
human anatomy 611.71
musical instruments 789.4
of ear anatomy 611.857
paleontology 566
physiology 612.75
skeleton of animal 591.49
Bonghi, R. Italian essays 854.82
Bonn conference rel. hist. 284.8
Bonnets costume 391.4
toilet 646.54
Bonus
efficiency pol. econ. 331.225
Book
auction catalogs author 018.3
clast 017.3
dict'ry 019.3
auctions 655.56
binding *see* Binding
buying lib. administrat. 025.22
cases library bildings 022.4
private libraries 645.63
catalogs author 018
clast 017
dictionary 019
publishers 015
subject 017
clubs self-culture 374.22
collecting 025.2
collectors biografy 920.1
fees library economy 024.22
furniture, special 022.93
holders lib. fittings 022.934
office equip. 651
illustration
inserted plates 096
printing 655.32
publishing 655.53
library 025.114
lifts library econ. 022.945
making typografy 655
numbers lib. admin. 025.8
of common prayer episc. 264.03
ownership rarities 097
plates library economy 025.253
rarities 097
theft by readers 024.83
rarities 090
rejection lib. economy 025.217
stacks library bldgs 022.43
thefts " abuses 024.86
trade business 655.5
history 655.4
trucks lib. economy 022.942
wagon " " 021.65
worm " " 025.8
Bookkeeping
accounts 657
agriculture 631.16
buttermaking 637.216
cheesemaking 637.316
dairies 637.116

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Bookkeeping
  library 025.114
  stockfarming 636.0816
Bookmarks laborsavers 029.2
Books
  and reading, prof'ships of 028.6
  bibliografy 010
  censorship lib. rejection 025.217
    " restriction 024.674
    prohibition 098
  chaind lib. econ. 025.8
  classification of lib. econ. 025.4
  cleaning " admin. 025.7
  commonplace " econ. 029.4
  condemd to be burnt 098
  enemies of lib. economy 025.8
  extra special privileges 024.71
  guides to selection 028
  library economy 020
  lists of best subj. bib. 016
  mending " admin. 025.7
  new, for rent lib. econ. 024.78
    library bookbuying 025.221
  number borrowable 024.61
  of prints 769
  old lib. bookbuying 025.223
  prayer 264
  preservation of lib. econ. 025.9
  privately printed rarities 094
    lib. gifts 025.227
  prohibited 098
  propagandist lib. gifts 025.227
  reading and aids 028
  reference lib. admin. 025.5
  relending by borrower 024.65
  repairing lib. admin. 025.7
  restricted lib. economy 024.67
  selection of " admin. 025.21
  selectors of " economy 025.214
  sizes of " " 025.3
  tariff on " " 021.861
  weight of " " 022.438
  withdrawal " " 025.218
Bookseller, library as 021.26
Booksellers
  catalogs author 018.4
    clast 017.4
    dictionary 019.4
  lives biografy 920.4
Bookselling publishing 655.5
Boomerang wepons 399
Boone co.
[1] Ill. history 977.329
[1] Ind. " 977.254
Boone co.
[1] Ia. history 977.754
[1] Mo. " 977.829
[1] W. Va. " 975.439
Boosters elec. eng. 621.31328
Bootmaking 685
Boots, tight hygiene 613.484
Booty law 341.3
Boragineæ botany 583.77
Borates mineralogy 549.73
Borch, Ole Dan. misc. 839.883
[1]Bordeaux history 944.71
  travels 914.471
Border ballads, Scottish
    Eng. poetry 821
  ruffians Kan. hist. 978.1
    U. S. " 973.66
Bording, Anders Dan. poet. 839.8132
Bore, gun ordnance 623.4235
Borecole 635.346
Borer, posthole 631.3113
Borers agric. pests 632.76
Bores social ethics 177
Borghini, V. Ital. essays 854.43
Boring machinery 621.945
  min. eng. 622.24
Börjesson, J. Swed. dram. 839.7261
Börk, Isak " " 839.723
Borlen apparatus dairy 637.3321
Born, B. de Provenç. poet. 849.126
Borneill, G. de " " 849.128
[1]Borneo history 991.1
  travel 919.11
Bornier, H. de Fr. drama 842.85
Boron inorg. chem. 546.27
Borough Eng. loc. gov. 352.0422
[1]Bosnia history 943.95
Bosphorus travels 914.96
Boss Amer. politics 329
Bosses geology 551.88
Boston
[1] Mass. history 974.46
  travel 917.446
  massacre Amer. revol. 973.3113
  port bill " " 973.3116
  schools, public 379.7446
  siege Amer. revol. 973.3313
  statistics 317.446
  tea party Amer. revol. 973.3115
  other subjects see table 1
Botanic
  chemistry 581.1
  gardens architecture 727.5
    botany 580.7

Botanic
museums botany 580.7
Botanists biografy 925.8
Botany **580**
agricultural 630.28
classification of 580.1
fossil **561**
geografic distribution **581.9**
medical **615**
of Bible 220.858
structural **581**
systematic **580**
Botero, Giovanni It. essays 854.48
Botin, A. af Swed. misc. 839.7847
Böttiger, K: V. " poet. 839.7168
Bottle charts physiografy 551.47
Bottles, milk 637.135
Bottom
inner shipbilding 623.84
of ocean botany 581.92
phys. geog. 551.46
zoology 591.92
shelbark hickory 634.523
[1]Bouches du Rhône Fr. hist. 944.91
Bouchet, Guillaume Fr. fic. 843.35
Boulders drift 551.33
Boulonnais draft horse 636.1543
Boundaries
law 347.2
national **foren relations** **327**
internat. law **341**
political sci. 320.128
Boundary
Mexican U. S. history 973.621
Northeast " " 973.58
N. W. Oreg. U. S. history 973.611
San Juan " " 973.82
Texas " " 973.621
Venezuela " " 973.87
Bounties army 355.22
protection 337.4
U. S. army 353.6
" civil war 973.7413
wage scales 331.225
"Bounty" mutiny, 1789
Pitcairn's iland 997
Bouquet's exped. U.S. hist. 973.27
Bourbon turkey 636.5928
[1]Bourbonnais, France hist. 944.57
Bourbons
French **history** **944.03**
restoration **944.06**
Spain history 946.054
restoration 946.07
Bourbourg fowls 636.544
Bourg fowls 636.544
Bourgeoisie soc. classes 323.32
Boursa, Turkey trav. 915.61
Boursault, E. Fr. drama 842.44
Bourse stock exchange 332.6
Bovine vaccin. cont. dis. 614.4731
Bowen, Francis Am. philos. 191.7
Bowling
alleys architecture 725.84
library bildings 022.665
amusements 796
Bowstring hemp agric. 633.574
Box girder bridges 624.4
stalls zootechny 636.0831
Boxer
ship U. S. war of 1812 973.5253
uprising Chinese hist. 951
Boxes
axle railway engin'g 625.21
electric motor cars 621.3347
packing agric. 631.5644
appliances " 631.3634
plant " 631.346
resistance 621.3742
transport agric. 631.3731
Boxing athletics 796
Boy problem childstudy 136.77
scouts societies 369.43
Boycotting labor strikes 331.893
Boye, C. J. Dan. drama 839.8261
Boyle lectures apologetics 239.02
Boys
childstudy 136.77
dept **Y. M. C. A.** **267.357**
religious societies **267.7**
societies **sociology** **369.42**
Brabant fowls 636.548
Bracciolini, F. Ital. satire 857.52
Bracelets jewelry 391.7
Braces boiler engin'g 621.18452
carpentry 694.3
railway track 625.15
Brackel fowls 636.548
Brachial
artery anatomy 611.1342
plexus " **611.8334**
Brachialis muscle " 611.73723
Brachiopoda paleontology 564.8
zoology 594.8
Brachvogel, A. E. 832.83
Brachygrafy **shorthand** **653**
Bracing engineering 624.3
Brackenridge, H.H: 813.21

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Braddock's defeat U.S.hist. 973.26
[1]Bradford co. Pa. history 974.857
Bradstreet, Anne Am.poet. 811.12
Brahe, Tyge Dan. misc. 839.883
Brahma fowls 636.5852
Brahmanism 294
Brahmans biografy 922.94
Brahmaputra fowls 636.5852
Brahmin sacred cattle 636.291
Brahmo Somaj Ind. relig. 299.11
Braiding elem. educat. 372.55
Braille system printing 655.38
Brain
anatomy 611.81
functional diseases of 616.84
mental derangements 132
physiology 131
morfology 612.823
physiology 612.82
structural diseases of 616.83
weight physiology 612.823
Braising cookery 641.72
Brakes
electric motor cars 621.3347
gun mounts 623.4356
railroad engineering 625.25
shaft power transmis. 621.826
Braking
electric motor cars 621.3347
gun mounts 623.573
Bramble fruits 634.71
Branch
[1] co. Mich. history 977.421
cuttings 631.5354
libraries library bldgs 022.15
" extens. 021.62
Branchial respiration zool. 591.125
[1]Brandenburg, Ger. history 943.15
travels 914.315
Brandes, Georg Dan. essays 839.8466
Branding zootechny 636.0812
Brandt, Geraert Dut. poet. 839.3136
Brandt's hydraulic gun 621.269
Brandy
hygiene 613.81
manufacture 663.5
physiologic psychology 612.82144
physiology 612.3931
stimulant 615.711
temperance 178
Brandywine, battle 973.3336
Brant
Joseph Amer. revol. 973.3345
Sebastian German satire 837.32
[1]Brant co. Ont. history 971.347
[1]Brantford, Ont. " 971.348
Brass instruments music 788
manufacture 673
Brasses, monumental
ecclesiology 247.3
sculpture 739
Braun, V.A.D.von Swed.sat. 839.7764
Bravery ethics 179.6
[1]Braxton co. W. Va. hist. 975.466
Brazil administration 354.81
botany 581.981
finance 336.81
geology 558.1
1 history 981
maps 912.81
schools, public 379.81
statistics 318.1
travel 918.1
treaties 341.281
tea 633.77
other topics see table 1
Brazing plumbing 696.1
Breach of promis law 347.6
Breaches
defense of mil. eng. 623.35
of disciplin mil. sci. 355.13
honor " " 355.13
Breaching " eng. 623.25
Bread, *see* Bred
Breakbone fever diseases 616.921
Breaker, middle 631.3126
clod 631.3143
Breakers
circuit elec. engin'g 621.31736
Breakfast, *see* Brekfast
Breaking
plow 631.3125
up, school 371.23
zootechny 636.0886
Breakwaters harbor eng. 627.2
Breast, *see* Brest
Breathing animals 591.12
man 612.2
Breathings Greek lang. 481.2
[1]Brecknock, Wales history 942.96
Bred
adulterations 614.312
and-cheese war, 1491 Neth. 949.202
as food physiology 612.39274
cookery 641.6
fruit 634.39
Breda fowls, Belgian 636.548

Bredero, G.A. Dutch dram. 839.3231
Bredstuffs production 338.1
Bredwinning courses educ. 375.0071
Breech mechanism ord. 623.424
Breeching tackle ord. 623.4362
Breechloading
guns ordnance 623.4222
small arms manufact. 683
mil. efficiency 623.442
Breeding
domestic animals 636.0824
feeding for zootechny 636.08451
plant 631.522
raising for zootechny 636.0881
zoology 591.56
Breeds domestic animals 636.08211
Brehon laws Irish law 349.415
Brekfast cookery 641.52
foods 641.3
meals 642.1
[1]Bremen, Germany hist. 943.52
travel 914.352
Bremer
Fredrika Swed. fiction 839.7363
[1]Bremer co. Ia. history 977.734
magnetite arcs 621.3256
Brentano, C. Ger. fiction 833.72
Bresciani, A. Ital. fiction 853.75
[1]Breslau history 943.14
travel 914.314
Bressane swine 636.447
Bresse fowls 636.544
Brest
anatomy 611.69
bone anatomy 611.713
diseases of women 618.19
wheels engineering 621.223
hydraulics 532.84
Bretagne, *see* Breton
Brethren, United sects 284.6
Bretón de los Herreros, M.
Spanish drama 862.53
Breton cattle 636.2441
draft horse 636.1544
language 491.68
literature 891.68
sheep 636.3448
swine 636.443
Breves spinae anatomy 611.7317
Breviaries Greek church 264.019
Roman cath. 264.02
Brewd
beverages adulterations 614.343
chemic tech. 663.3
Breweries architecture 725.42
Brewing air pollution 614.731
chemic tech. 663.3
Briar creek Amer. revol. 973.3357
Bribery criminal law 343
electoral fraud 324.271
legislativ abuses 328.367
Bricabrac 739
Brick
and hollow tile floors arch. 721.63
iron ceilings " 721.73
structures " 721.97
bilding material 691.4
bildings, library 022.21
city houses, detacht 728.38
party-wall 728.32
city houses. semidetacht 728.35
clays economic geol. 553.61
construction masonry 693.2
manufacture 666.7
pavement 625.82
piers 721.34
road engineering 625.82
strength of materials 620.14
sun-dried masonry 693.22
village houses architec. 728.63
vitrified pavements 625.87
walls architecture 721.24
work, bonds of masonry 693.21
works architecture 725.48
Bridal customs 392.5
Bridge bilding 624
duplex telegrafy 621.382325
grafting agric. 632.8
material mil. eng. 623.66
Wheatstone engin'g 621.3742
physics 537.7
Bridges administration 351.815
agriculture 631.28
engineering 624
local government 352.7
military eng. 623.65
[1]Bridgeton, N. J. hist. 974.995
Bridgewater treatises 215
Bridging telefone lines 621.38523
Brie cheese 637.3534
Brief longhand abbrevia. 653.2
Brigandage crim. law 343
Brigands law 343
lives 923.41
[1]Brighton, Eng. history 942.25
travel 914.225
Bright's disease of kidneys 616.61

Brine system refrig. 621.5651
Brink, R. C. B. van den 839.3452
Bristle tails
insects 595.71
pests agriculture 632.71
dom. econ. 648.7
Bristoe campain 973.7353
Bristol
[1] co. England history 942.41
[1] Mass. " 974.48
[1] R. I. " 974.55
Briticisms philology 427
British
[1] **America history 971**
army 354.426
barrows prehist. arch. 571.92
[1] Burma history 959.1
travels 915.91
colonies polit. sci. 325
[1] Columbia history 971.1
constitution 342.42
[1] East Africa history 967.6
[1] **empire history 942**
Guiana boundary
U.S. hist. 973.87
[1] history 988
travel 918.8
[1] Honduras history 972.82
[1] **India history 954**
travel 915.4
merinos 636.3672
museum library 027.542
navy 354.427
N. America act Can. hist. 971.049
philosofers 192
régime Canada history 971
statutes 346
Britons history 942
[1]**Brittany, France history 944.1**
Broad bean 635.651
church Anglican ch. 283
ligament anat. 611.6672
Broadcast sowers 631.3311
Broadsides lib. admin. 025.174
Broadtaild sheep African 636.386
Asiatic 636.385
European 636.373
Italian 636.35
Broca's
area anatomy 611.8133
convolutions " 611.81311
Broccoli 635.356
Brochmand, J. Dan. misc. 839.883
Brockes, B. H; Ger. poet. 831.57
Broiling cookery 641.76
Brokerage law 347.7
[1]Brome co. Que. history 971.464
Bromelia fibers 633.575
Bromeliaceæ botany 584.22
Bromids hypnotics 615.782
Bromin
compounds mineralogy 549.4
inorganic chemistry 546.14
Bronchi anatomy 611.233
physiology 612.2151
Bronchial arteries anat. 611.1355
Bronchitis diseases 616.23
Bronco 636.168
Brontë, C. Eng. fiction 823.81
[1]Bronx co. N. Y. history 974.7275
Bronze
age prehist. archeology 571.3
fine arts 739
manufactures 673
remains prehist. arch. 571.34
Bronze turkey 636.5922
Brooders 636.508337
Brook Farm socialism 335.97
[1]Brooke co. W. Va. hist. 975.413
[1]Brooklyn, N. Y. history 974.723
travels 917.4723
Brooks assault on Sumner 973.7114
Broom corn 633.175
root 633.59
[1]Broome co. N. Y. history 974.775
Brooms domestic econ. 648.52
Brorson, H. A. Dan. poet. 839.8144
Brothels ethics 176.5
Brotherhoods monks 271
parish work 255
Brothers, Christian monks 271.78
Brougham, H: Eng. essays 824.74
Brown, C: B. Am. fiction 813.23
Thomas Eng. humor 827.46
Brown
[1] co. Ill. history 977.347
travels 917.7347
[1] Ind. history 977.225
[1] O. history 977.1796
[1] Wis. history 977.561
coal economic geology 553.22
Swiss cattle 636.2371
Browne, C: F. (Artemus Ward)
Amer. humor 817.37
Brownian motion
molecular physics 539.6
Brownies folklore 398.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Browning, E. B. Eng. poet. 821.82
Robert " " 821.83
Brownists sects 285.8
Brown's, John, raid
causes of U. S. civ. war 973.7116
history of slavery 326.973
U. S. history 973.68
Virginia " 975.5
Brownson, O. A. Am. phil. 191.2
Browntail moth 632.78
[1]Bruce co. Ont. history 971.321
Bruevs, D: A. de Fr. dram. 842.46
Bruges fowls 636.548
Brumaire French history 944.045
Bruniaceæ botany 583.396
Brünner's glands anat. 611.342
Brunswick
[1] Germany history 943.54
house of Eng. history 942.08
pigeons 636.59633
Brusa, Turkey trav. 915.61
Brush fibers 633.59
[1]Brussels history 949.3
travel 914.93
sprouts 635.36
Brutes, immortality of 591.51
Bruun, J. N. Dan. drama 839.8252
M. K. " poetry 839.8158
T. K. " satire 839.8753
Bryant, W: C. Am. poetry 811.33
Bryology botany 588.2
Bryophyta botany 588
Bryozoa molluscoidea 594.7
Bubble
Mississippi Fr. finance 336.44
South sea stocks " 332.6
Bubonic plague pub. helth 614.49
Buccal
cavity anatomy 611.31
physiol. 612.31
of speech 612.7891
muscles anat. 611.7326
pharynx " 611.3272
tonsil " 611.325
Buccaneers adventures 910.4
biografy 923.41
law 343
Buccinator muscle anat. 611.7326
Buchan humblies cattle 636.2231
Buchanan, J. presidency of 973.68
[1]Buchanan co. Ia. history 977.738
[1] Mo. " 977.813
[1]Bucharest history 949.8
travel 914.98
Buchholtz, A. H. Ger. fic. 833.51
Buck sithe 631.3117
Bucket conveyers mech.eng. 621.8676
Buckets
mining engineering 622.68
steam turbin construc. 621.16532
theory 621.16512
Buckeye fowls 636.5815
[1]Buckingham, Eng. hist. 942.57
[1]Bucks co. Pa. history 974.821
Bucks co. fowls 636.5813
Buckshot war Penn. hist. 974.8
Buckwheat 633.12
[5]Bucolic poetry Eng. lit. 821.06
Bud grafting 631.5415
[1]Buda Pesth history 943.91
Buddhism 294
Buddhist architecture 722.4
cookery 641.567
Buddhists biografy 922.94
Budding 631.5415
knife 631.341
Budgell, E. Eng. essays 824.54
Budget English finance 336.42
financ. adminis. 351.72
Buds, nipping off pruning 631.54222
Buena Vista
battle Mex. war 973.6235
[1] co. Ia. history 977.718
[1]Buenos Ayres history 982
travels 918.2
Buff turkey 636.5924
Buffalo,
[1] city N. Y. history 974.797
Panamer. expos. 606
travels 917.4797
[1] co. Wis. history 977.548
Buffalo zoology 599.7
American cattle 636.2921
berry 634.742
currant 634.724
milk cheese 637.3554
water cattle 636.293
Buffers railroad engin'g 625.25
Buffet cars trav. cookery 641.576
Buffets fixt furniture 729.94
Bugle, key wind instru. 788.46
valv " " 788.47
Bugs rhynchota 595.75
Büheler, H. Ger. poetry 831.34
Buhlwork 749
Building, *see* Bilding
Built-up guns ordnance 623.4216
[1]Bukowina history 943.75

Bul
fights amusements 791
ethics 175.6
Golden Germany 342.43
tung plow 631.3127
Bulbels 631.5321
Bulblet 631.5321
Bulbo-urethral glands anat. 611.627
Bulbs edible 635.2
floriculture 716.1
horticulture 631.5321
Bulbules " 631.5321
Bulbus olfactorius anat. 611.8133
vestibuli " 611.675
[1]Bulgaria history 949.7
[4] **language 491.81**
Bulkheds shipbilding 623.84
Bull, *see* also Bul
Bull Run
1st battle U. S. hist. 973.7314
2d " " " 973.7328
Bulletin boards lib. econ. 022.924
Bulletins lib. publications 025.125
Bullets ordnance 623.451
small arms 623.455
Bullion coins and coinage 332.4
Bullock's hart 634.415
Bulls and bears stock ex. 332.6
Ferry, N.Y. Am. revol. 973.3365
Irish Eng. humor 827
papal eccles. polity 262.8
Rom. ch. 282
Bullying student life 371.82
Bulwer, E: G: Eng. fiction 823.84
Bumping posts railrd eng. 625.16
Bunchers crop packing 631.3643
Bundener swine 636.449
Bundesrat Ger. empire 354.4304
Bundestaat pol. sci. 321.021
Bundlers agriculture 631.3641
Bundling customs 392.4
Bunker hill
battle Amer. revol. 973.3312
monument " " 973.366
landscape arch. 718
Bunsen burners prac. chem 542.44
pump pneumatics 533.5
Bunyan, John Eng. fiction 823.42
Buonarroti, M. Ital. dram. 852.51
Buoys harbor engin'g 627.9
protection of life 614.865
ship equipment 623.86
Bur clover forage 633.31
Burchiello, D. Ital. satire 857.21
Burdach's tract anat. 611.8261
Burdette, R. J. Am. hum. 817.43
[1]Bureau co. Ill. history 977.337
Bureaucracy administra. 351.1
Bureaus
architecture 725.13
cabinet making 684
college employment 378.364
servants " 647.2
teachers " 371.145
Y M C A employment 267.3562
Burets practical chem. 542.35
Bürger, G. A; Ger. poetry 831.63
Bürgher schools, German 379.43
Burglar alarms signals 654.7
Burglary criminal law 343
Burgoyne's
campain Am. rev. 973.3332
surrender " 973.3333
[1]Burgundy, France history 944.4
Burial
cemeteries 719
church rituals 265.8
customs 393.1
public helth 614.61
societies cooperation 334.8
Buriat fat rumpt sheep 636.385
Burke, E. Eng. oratory 825.62
Burking criminal law 343
[5]Burlesque Eng. litera. 827
[1]Burlington, Ia. hist. 977.7961
[1] co. N. J. " 974.961
[1]Burma history 959.2
[1] British " 959.1
Burmanniaceæ botany 584.13
Burmese architecture 722.4
Burners for liquid fuel
steam engineering 621.18357
Burnett, F. H. Am. fiction 813.48
[1] " co. Wis. history 977.514
Burney, Frances Eng. fic. 823.66
Burning
glass optics 535.81
of libraries 022.26
the ded customs 393.2
turf fertilizers 631.831
Burnings customs of war 399
student life 371.89
Burns, R. Eng. poetry 821.67
Burns and scalds surgery 617.11
Burnside exped. U.S. hist. 973.7324
Burnz shorthand 653.64

Burr, Aaron, conspiracy
trials 343.1
U. S. hist. 973.48
Burro 636.182
Burroughs, J: Am. essays 814.41
Bursæ anatomy 611.75
diseases of 616.76
Burseraceæ botany 583.247
Burying grounds cemetery 719
pub. helth 614.65
Bush
fruits 634.7
harrow 631.3131
squash 635.621
Business
arithmetics 511.8
bildings architecture 725.2
capacity college train'g 378.01
colleges 650.7
commerce sociology 380
cooperation 334
ethics 174
law 347.6
manuals 658
methods 658
schools 650.7
vices 174.4
[1]Busra history 956.7
Butchershops 641.4
[1]Bute, Scotland history 941.39
Butjading sheep 636.3314
Butler
Samuel Eng. humor 827.42
[1]Butler co. Ia. history 977.729
[1] Mo. " 977.893
[1] O. " 977.175
[1] Pa. " 974.891
Butlers dom. econ. 647.25
pantry " " 643.45
[1]Butte co. Cal. hist. 979.432
Butter
adulterations 614.325
artificial chem. tech. 664.3
as food physiology 612.39286
dairy 637.2
in milk physiology 612.66413
Butterflies fossils 565.78
pests 632.78
zoology 595.78
Butterin 637.282
Buttermaking 637.233
Buttermilk adulterations 614.324
dairy 637.247
Buttons manufactures 679
Bylaws lib. government 023.1
Byles, Mather Am. satire 817.13
Byron, G: G. N. Eng. poet. 821.76
Byssaceæ botany 589.19
Byzantine
architecture 723.2
art 709.495
ecclesiology 246.1
[1] **empire history 949.5**

Cabal, Conway Am. revol. 973.349
Cabalistic art 133
Cabbage 635.34
[1]Cabell co. W. Va. history 975.442
Cabin
aviation 629.182
ballooning 629.162
furnishings shipbilding 623.86
Cabinet
council, English 354.4205
offisers in legis. bodies 328.3321
U. S. gov't 353.05
organ musical instrum. 786.9
work joinery 694.7
Cabinetmaking 684
Cabinets museum equip. 579.71
Cable roads city transit 388
road eng'ng 625.5
Cablelaying ships 623.828
Cables
bridgebilding 624.55
electric engineering 621.31934
manufactures 677
ship outfit 623.86
strength of materials 620.11288
submarine communica. 654.5
engineering 621.3828
telefone 621.38783
telegraf business 654
engineering 621.3828
sociology 384
Cabot, John & Sebastian
discovery of America 973.17
Cabs city transit 388
manufactures 684
[1]Cabul, Afghanistan hist. 958.1
trav. 915.81
Cacao 633.74
Cachet, lettres de Fr. hist. 944.03
Cactaceous fruits 634.775
Cacteæ botany 583.471
Cadalso, J. de Span. poetry 861.42
Cadastration taxation 336.22
Caddis flies pests 632.74
zoology 595.74
Cadets military schools 355.07
[1]Cadiz history 946.8
travels 914.68
Cadmium
accumulators elec. eng. 621.35558
inorganic chem. 546.48
Cædmon Ang. Sax. poet. 829.2
[1]Caen history 944.22
travels 914.422
Caesar Latin literature 878.1
Caesarian section obstetrics 618.86
Caesars lives 923.137
Roman history 937
Caesium inorg. chem. 546.36
Cafés architecture 725.71
cooking for 641.572
table systems 642.5
Cafeteria " 642.57
Caffein diuretics 615.761
hygiene 613.83
Caffres history 968.6
Cage birds domestic pets 636.686
Cages mining eng. 622.68
Cailletet apparatus chem. 542.79
Cairns prehist. archeology 571.96
[1]Cairo, Egypt history 962.1
travels 916.21
[1] Ill. history 977.3999
Caisson
disease physiology 612.274
ordnance 623.4314
process bridge engin'g 624.157
workers hygiene 613.66
[1]Caithness, Scotland hist. 941.13
Cake cookery 641.6
[1]Calabria, Italy hist. 945.78
trav. 914.578
[1]Calais history 944.27
travels 914.427
Calamus scriptorius anat. 611.8185
[1]Calaveras co. Cal. hist. 979.444
Calcaneoastragaloid lig. anat. 611.72851
Calcaneocuboid " " 611.72853
Calcaneonavicular " " 611.72851
Calcaneoscaphoid " " 611.72851
Calcaneum " 611.71873
Calcarin fissure " 611.81317
Calcic waters econ. geol. 553.75
Calcimining 698.2
Calcium
cyanid fertilizers 631.8421
inorganic chemistry 546.41
light chemic tech. 665.7
salts as food physiol. 612.39263
Calculating machines 510.8
Calculations engin'g 620.8
Calculators mathematics 510.8
Calculi
biliary physiology 612.35764
salivary " 612.31364
urinary " 612.4661
Calculus
diseases 616.62

Calculus
mathematics **517**
of direction anal. geom. 516.8
[1]Calcutta history 954.1
travels 915.41
Calderon de la Barca, P. 862.35
[1]Caldwell co. Mo. history 977.8185
[1]Caledonia history 941
[1] co. Vt " 974.33
Calendar **529**
ecclesiastic, Anglic. 264.031
Calendars for teachers 370.59
Calendering paper manuf. 676
textil fabrics 677
Calf-tung plow 631.3127
Calhoun, J: C. Am. orat. 815.26
Calhoun
[1] co. Ill. history 977.385
travels 917.7385
[1] Ia. history 977.743
[1] Mich. " 977.422
[1] W. Va. " 975.429
Calibrated
vessels prac. chem. 542.35
Calibration elec. instrum. 621.372
instrum. mak'g 681
Calico manufactures 677
printing chem. tech. 667.3
California
black currants 634.7233
[1] Lower hist. 972.2
California, U. S.
acquisition Mex. war 973.621
admission U. S. hist. 973.64
Fremont in Mex. war 973.6232
[1] **history** **979.4**
mil. hist. U. S. civ. war 973.7494
Spanish war 973.89494
travels **917.94**
Califs Mohammedanism 297
Caligrafs writing mach. 652
Caligrafy writing 652
Calisthenics hygiene 613.71
sch. hygiene **371.732**
Calking fibers 633.59
Calkt joints plumbing 696.6
Call apparatus, in telefone 621.3867
out " 621.3868
[1]Callaway co. Mo. history 977.8335
Callimachus Gk lyr. poetry 884.8
Callosal gyre anatomy 611.81314
Callosomarginal fissure " 611.81314
Callosum anatomy 611.8139
Calmucks history 950
Caloric engins 621.41
physics **536**
Calorimeter " 536.6
Calorimetry
direct physiology **612.511**
indirect " **612.512**
physics 536.6
Calotype photografy 772
Calpurnius Siculus, Lat. poet. 874.6
Calsomining 698.2
[1]Calumet co. Wis. history 977.566
[1]Calvados, France " 944.22
Calvaria anatomy 611.7141
[1]Calvert co. Md. history 975.244
Calvinism sects 284.2
vs free will theol. 234
Calvinistic baptist church 286.1
confession 238.4
methodist ch. 287.2
Calvinists biografy **922.4**
Calycanthaceæ botany 583.113
Calycereæ " 583 546
Calycineae " **584.4**
Calycozoa zoology 593.74
Cambistry metrology 389
money 332.45
[1]Cambodia history 959.6
Cambodian architecture 722.4
[1]Cambria, Wales history **942.9**
[1] co. Pa. " 974.877
Cambrian age geology 551.72
[1]Cambridge, Eng. history 942.59
travels 914.259
univer. 378.42
[1] Mass. history 974.44
travels 917.444
confession 238.5
platform 238.5
turkey agriculture 636.5922
Camden
Ark. exped. U. S. civ. war 973.7363
[1] city, N. J. hist. 974.988
[1] co. Mo. " 977.854
[1] N. J. " 974.987
S. C. battle Am. revol. 973.3363
Camel domestic animals 636.295
zoology 599.7
Camels hair dom. econ. 646.13
Camembert cheese 637.3534
Cameos 736

Camera photografy 771
lucida microscopy 578.4
optics 535.86
obscura " 535.86
photografy 771
Cameralistic science 336
[1]Cameron co. Pa. history 974.866
Cameronians sects 285.5
Camfor therapeutics 615.789
Camisards sects 284.244
Camouflets mil. eng. 623.45435
Camp cookery 641.578
disinfection cont. dis. 614.48
life hygiene 613.67
mil. science 355.12
lunches dom. econ. 642.3
meetings 269
[1]Campagna, Italy history 945.6
travel 914.56
Campains
political 329
U. S. history civil war 973.73
Mex. " 973.623
revolution 973.33
Span. war 973.892
war 1812 973.523
Campanales botany 583.57
Campania anc. history 937.7
[1] mod. " 945.72
Campanulaceæ botany 583.59
Campbellism sects 286.6
Campbellites biografy 922.6
[1]Campeche, Mexico hist. 972.6
Campenes poultry 636.548
Campenon, F. N; V. 841.66
Campfire girls societies 369.47
Camphor therapeutics 615.789
Camping out 796
Cams mech. engineering 621.838
Can system icemaking 621.581
Canada administration 354.71
botany 581.971
finance 336.71
geology 557.1
[1] **history 971**
literature, *see* 810 note and and 820 note
maps 912.71
schools, public 379.71
statistics 317.1
travels 917.1
campain Amer. revol. 973.3315
U. S. war 1812 973.5233
Canada
crookneck squash 635.622
discovery of America 973.18
[1] **East history 971.4**
travels 917.14
[1] **West history 971.3**
travels 917.13
other topics see table 1
Canadian blueberry 634.735
exped. Am. rev. 973.3315
French 447.9
goose 636.59881
Canaigre 633.871
Canal boats shipbilding 623.829
Canalicular nerv structures
histology 611.01882
Canaliculi, bile anatomy 611.361
Canals
drainage 631.62
engineering 626
interoceanic engin'g 626.9
irrigation 631.72
transit sociology 386
transportation 656
see also special names
Canary birds care of 636.686
zoology 598.8
[1] iles history 946.8
Cancer diseases 616.994
Cancioneros, Los Sp. poet. 861.25
Cand food pub. helth 614.318
[1]Candahar history 958.2
travels 915.82
Candidacy suffrage 324.23
Candidates " 324.23
Candlepower elec. lighting 621.321
Candles chemic tech. 665.1
dom. lighting 644.311
Candlesticks dom. econ. 644.321
Candor ethics 177.3
Candy adulterations 614.311
Candymaking 641.85
Cane fruits 634.71
harvesters 631.3566
sugar agriculture 633.61
botany 584.9
Canellaceæ " 583.137
Caney, El battle 973.893
Canister ordnance 623.45122
Cannabis agriculture 633.53
Canned food pub. helth 614.318
Cannel coal econ. geol. 553.23
Cannibalism war customs 399

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Canning
fruits and veg. chem.tech. 664.8
meats and fish " " 664.9
Cannon mil. engineering 623.4212
Canoes boatbilding 623.829
canoeing 797
Canon
law 348
music 781.5
of scripture 220.1
Canonization dogma 235
Canons, apostol. eccles. pol. 262.6
church 262.6
Cañons rivers 551.48
of Colorado river descr. 917.91
Canopy windows arch. dec. 729.83
Cans, milk 637.135
Cant ethics 179.8
[1]Cantal, France history 944.59
Cantaloup 635.611
Cantata dramatic music 782.8
sacred " 783.4
Canterbury convocation 283.42
Cantharides animal pois. 615.94
Canthi anatomy 611.847
Canticles Bible 223.9
Cantilever bridges 624.35
[1]Canton, China history 951.2
travels 915.12
[1] O. history 977.1621
Cantù, C. Italian fiction 853.76
Canvas roofing bilding 695.8
Canvass lib. propaganda 021.71
Canvassing bookselling 655.57
Canyons rivers 551.48
Colorado river 917.91
Caoutchouc org. chem. 547.24
rubber manuf. 678
Cap and gown acad. cost. 378.29
Capacelli Albergati, F. 852.63
Capacity
for knowing psych. 151
ship design 623.81
suffrage qualifications 324.14
[1]Cape Breton co. N. S. hist. 971.695
[1] **iland** " **971.69**
[1] **travels 917.169**
[1] Colony, Africa hist. 968.7
[1] Girardeau co. Mo. " 977.896
[1] May co. N. J. " 974.998
[1] of Good Hope " 968.7
[1] Verde ilands " 997
trav. 919.7
swine 636.486
Capet, Hugh Fr. history 944.021
house of " " 944.02
Capillaries
bile anatomy 611.361
blood " 611.15
pressure in physiol. 612.145
lymph anatomy 611 42
Capillary
analysis chemistry 544.92
attraction in plants 581.11
of liquids 532.6
circulation physiology 612.135
moisture agric. 631.432
Capital and labor 331
punishment law 343.2
Capitalists biografy 923.3
[3]Capitalization Eng. lang. 421.9
securities 332.6
Capitation tax 336.23
Capitatum, os anatomy 611.71777
Capitols architecture 725.11
Capon poultry 636.513
[1] Springs, W. Va. hist. 975.495
Caporali, C. Italian satire 857.43
Cappadocia ancient hist. 939.34
Capparideæ botany 583.131
Capponi, G. Ital. essays 854.75
Caprification secretions 591.145
Caprifoliaceæ botany 583.51
Caps
indoor hedgear toilet 646.48
outdoor " " 646.5
percussion chem. tech. 662.4
Capstans mech. engin'g 621.864
Capsular extract
physiol. effect 612.458
Capsule of lens eye dis. 617.74
spleen anat. 611.418
Capsules, suprarenal anat. 611.45
physiol. 612.45
Captivs internat. law 341.3
war customs 399
Captivities, indian 970.3
Captivity military life 355.11
pris. disciplin 365
Capture of animals zoot. 636.08111
Captures internat. law 341.3
Capuana, Luigi Ital. fiction 853.83
Capuchins religious hist. 271.36
Caput gallinaginis anat. 611.6231
Car
factories architecture 725.45
houses, R. R. " 725.33
wiring elec. traction 621.3345

Car, see also Cars
Carabao 636.293
Caraunda 634.744
Caravans transportation 656
Caravels shipbilding 623.8225
Caraway horticulture 635.75
Carbid arcs elec. lighting 621.3256
Carbines manufacture 683
mil. efficiency 623.442
Carbohydrates
chemistry of food 641.13
in blood physiol. 612.122
muscle " 612.74411
nutrition " 612.396
quantity in food and tissue 612.3967
Carbolic acid
disinfectants cont. dis. 614.485
materia medica 615.313
Carbon
compounds air pollution 614.721
mat. med. 615.31
organ. chem 547
[1] co. Pa. history 974.826
filaments elec. lighting 621.3263
group inorganic chem. 546.25
in food physiol. 612.3921
inorganic chemistry 546.26
metabolism phys. chem. 612.01532
process photografy 773
series economic geol. 553.2
vapor lamps elec. light 621.3275
Carbonari secret societies 366
Carbonated waters hyg. 613.38
Carbonates mineralogy 549.78
Carbonic
acid air pollution 614.722
in asphyxiation 612.2324
blood physiol. 612.1273
respira. physiol. 612.22311
muscular produc. 612.74422
refrig. machinery 621.574
toxicology 615.96
oxid air pollution 614.722
narcotic poisons 615.96
Carboniferous age geol. 551.75
fossils 560
Carbonous acid physiol. 612.234
Carbons, arc light 621.3257
Carborundum abrasivs 621.92
Carboxyhemoglobin blood 612.11114
Carburetted
air heating prac. chem. 542.44
hydrogen air pollution 614.722
Carcano, Giulio Ital. fic. 853.77
Card
catalog lib. admin. 025.3
playing amusements 795
ethics 175.5
system literary meth. 029.1
Cardia anatomy 611.333
Cardiac
contraction physiol. 612.171
cranial nervs, sup. anat. 611.831915
glands of stomach " 611.333
irritability physiology 612.172
muscle histology 611.01863
plexus anatomy 611.83917
sympathetic nervs
inferior anatomy 611.83917
middle " 611.83915
superior " 611.83914
valv closure physiology 612.1713
valvs anatomy 611.1263
veins anatomy 611.142
Cardiff giant humbugs 133.7
[1]Cardigan, Wales history 942.95
Cardinal veins anatomy 611.144
Cardinals ecclesias. polity 262.13
lives 922 2
Roman church 282
Cardiografy physiology 612.1711
Cardoon 635.327
Carducci, Giosuè Ital. poet 851.84
Care of
accumulators elec. eng. 621.35418
animals public helth 614.94
zootechny 636.083
body hygiene 613.4
school hygiene 371.73
children dom. econ. 649.1
eyes hygiene 613.49
school hygiene 371.72
farm machinery 631.3
led accumulators 621.35518
milk 637.13
person customs 391.6
hygiene 613.49
toilet 646.7
plants agriculture 634.54
steam apparatus 621.193
Carelius, Olof Swed. poet 839.7141
Cargo
capacity shipbilding 623.81
vessels " 623.824
Caria ancient history 939.24
Caribbean sea travels 917.29
phys. geog. 551.463
[1]Caribbee ilands history 972.97

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Caribou zoology 599.7
Caricature drawing 741
Carillon music 789.5
[1]Carinthia, Austria hist. 943.66
Carinthian sheep 636.3336
Carlén, Emilie Swed. fic. 839.7365
Carleton, Will Am. humor 817.45
[1]Carleton co. N. B. history 971.552
[1] Ont. " 971.383
Carlist wars Spanishhist. 946.07
Carlovingian cycle legends 398.2
[1]Carlow, Ireland history 941.88
Carlson, F. F. Swed. misc. 839.7864
Carlyle, T: Eng. essays 824.82
[1]Carmarthen, Wales hist. 942.98
Carmelites monks 271.73
sisterhoods 271.971
[1]Carnarvon, Wales hist. 942.92
Carnations horticulture 716.2
Carneades Gk philosofy 186.2
Carnegie institution 378.32
pension fund 371.17
[1]Carniola, Austria hist. 943.67
Carnivora mammals 599.7
Carnivorous plants botany 581.53
Carnot, Sadi- Fr. hist. 944.08
Carob 634.462
Carol sacred music 783.6
Carolinas
For military history, see subdivisions of Special campains and Military history under 975.3, 973.52, 973.7 and 973.89
Caroline, burning U. S. hist. 973.57
[1] co. Md. history 975.231
[1] ilands " 996.6
Carolingians Fr. hist. 944.01
Ger. " 943.021
Carotid
arteries anatomy 611.133
gland " 611.47
physiology 612.495
nerv, external anat. 611.83913
internal " 611.83912
plexus, common " 611.83914
Carpal bones anatomy 611.7177
joints " 611.7275
Carpathian swine 636.432
Carpathos ancient history 939.17
[1] modern " 949.97
Carpenters lib. econ. 023.773
Carpentry bilding 694
stereotomy 515.82
Carpets designing 745
domestic econ. 645.1
hygiene 613.593
library econ. 022.963
manufacture 677
Carpocratian heresy 273.1
Carpometacarpal joints 611.7276
Carposporeae algae 589.4
fungi 589.21
Carpus anatomy 611.7177
Carrer, L. Ital. poetry 851.76
Carrera, V. " drama 852.83
Carriage
and car factories archit. 725.45
horse 636.14
houses architecture 728.94
farm bildings 631.24
making mech. trades 684
Carriages, care of gun 623.4813
motor 629.2
ordnance 623.43
Carrier pigeons dom. birds 636.59635
Carriers
cash mech. engin'g 621.8679
hay 631.3535
in irrigation sanitary eng. 628.366
law 347.4
mechanical lib. econ. 022.944
[1]Carroll co. Ill. history 977.334
travels 917.7334
[1] Ind. history 977.294
[1] Ia. " 977.746
[1] Md. " 975.277
[1] Mo. " 977.8225
[1] N. H. " 974.24
[1] O. " 977.167
Carrot field crops 633.43
garden " 635.13
Cars
aerostation engin'g 629.162
aviation " 629.182
bilding 699
disinfection cont. dis. 614.48
horse engineering 625.6
milk agriculture 637.135
motor engineeting 629.2
tram elec. " 621.3343
railroad engineering 625.22
Cart horse 636.15
[1]Cartagena, Spain history 946.7
travels 914.67
Cartels law of war 341.3
[1]Carter co. Mo. history 977.889
Cartesianism philos. syst. 144

Carthage anc. history 939.73
Carthaginian architecture 722.3
[4] **language 492.6**
war Rom. hist. 937.04
Carthusian monks 271.71
Cartier, Jacques U. S. hist. 973.18
Cartilage chem. compos. 612.7512
histology 611.0183
Cartilages anat. 611.72
larynx " 611.221
Cartografy maps, etc. 912
Cartoons 741
Cartridges mil. science 623.4553
Carts, hand farm transport 631.3734
Carvd decoration archit. 729.5
Carving dining 642.6
sculpture 736
Caryophylleae botany 583.152
Caryophyllineae " 583.15
Casa, G. della Ital. poetry 851.38
Casein chemic tech. 668
in milk agriculture 637.1273
physiol. 612.66414
secretion " 612.66434
Casemate mounts ordnance 623.4331
Casemates fortifications 623.123
Cases, book lib. economy 022.4
English syntax 425.5
Greek " 485.5
Latin " 475.5
[3] other languages
law Amer. digests 345.5
reports 345.4
Eng. digests 346.5
reports 346.4
Cashew family fruit 634.44
nuciculture 634.573
[1]Cashmere history 954.6
goat 636.39854
Casing steam boilers 621.18454
turbins 621.16538
Caspian sea travels 914.78
[1]Cass co. Ill. history 977.346
travels 917.7346
[1] Ind. history 977.286
[1] Ia. " 977.772
[1] Mich. " 977.412
[1] Mo. " 977.842
Cassi, F. Ital. poetry 851.65
Cassia tree botany 583.32
Cassinoid curv anal. geom. 516.26
Cast iron bldg material 691.7
engin'g 620.17
structures arch. 721.91
Castanets musical instr. 789.4
Caste ethics 177.5
Brahmanism 294
Castelar, E. Sp. oratory 865.52
Castelein, M. de Dut. poet. 839.3123
Castellazzo, L. Ital. fic. 853.81
Castelvetro, L. " essays 854.41
Casti, G. " satire 857.63
Castiglione, B. " essays 854.33
[1]Castile, New, history 946.4
[1] Old " 946.3
Castilian fowls 636.561
Castillejo, C. de Sp. poetry 861.32
Casting foundries 671
Castle Martin cattle 636.2236
Castles architecture 728.81
Castor and Pollux mythol. 292
beans fertilizers 631.847
Castrated female agric. 636.08235
male " 636.08234
Castrametation mil. sci. 355.5
Castration physiology 612.6161
surgery 617.46
Castro y Bĕlvis G. de 862.32
Casts 730
Casualties, protection from public helth 614.8
Casuarineæ botany 583.975
Casuistry ethics 171.6
Cat domestic animals 636.8
zoology 599.7
diseases of medicin 619.8
Catabaptists sects 284.3
Catacombs antiquities 913.37
cemeteries 719
symbols 246.5
[4]**Catalan language 449.9**
[5] **literature 849.9**
Catalepsy 132.4
Catalog dep't lib. econ. 025.3
Catalogers " " 023.74
Cataloging " " 025.3
duplicates " " 025.263
Catalogs
author 018
book publishers' 015
college 378
dictionary 019
library printing 025.124
of brands stockfarming 636.08128
sales " 636.08188
special authors 012
countries 015
instruments 681

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Catalogs
of special subjects **016**
stock farm 636.08187
pub. access to lib. econ. 024.54
star maps 524.8
stars 523.89
subject **017**
trade, book **015**
universal 011
see also Bibliografy
[1]Catalonia, Spain history 946.7
Catalysis chemistry 541.39
Catalytic analysis chem. 545.36
Catamarans boatbilding 623.8212
Cataphoresis electrotherapy 615.84
Cataracts eye diseases 617.74
physical geog. 551.48
Catarrh diseases 616.205
epidemic " 616.203
Catarrhal affections of skin 616.52
Catch vocal music 784.1
basins of sewers 628.255
Catchcrop culture 631.584
Catechetic method educa. 371.35
Catechisms **238**
Catenary
curv physics 531.83
suspension elec. eng. 621.33223
Caterer domestic econ. 641
Caterpillars
agricultural pests 632.78
economic zoology 591.69
systematic " 595.78
Cathari persecutions 272.4
sects 284.4
Catharine 1 Russian hist. 947.06
2 " " 947.06
Cathartics therapeutics **615.732**
[1]Cathay history 951
travels 915.1
Cathedral
canons eccles. polity 262.3
schools education 377.4
servises, musical **783.2**
system eccles. polity 262.3
Cathedrals architecture 726.6
Catholic apostolic church 289.9
biog. 922.89
authors bibliog. 013.282
church **282**
epistles Bible **227.9**
Catholicism & protestantism 282
Catholics biografy **922.2**
Cato, Valerius Lat. satire 877.2
Cats, Jacob Dutch poetry 839.3131
Cats *see* Cat
Catskill formation geol. 551.74
[1]Catskills, N. Y. history 974.738
travels 917.4738
Cattalo cattle 636.2922
[1]Cattaraugus co. N. Y. hist. 974.794
Cattle **636.2**
diseases, cont. hygiene 614.91
veterinary med. 619.2
gards railway engin'g 625.16
markets architecture 725.27
Catullus Lat. lyric poetry 874.2
[1]Caucasia history 947.9
Caucus primary suffrage 324.235
Caucuses
legislativ procedure 328.3745
Cauda equina anatomy 611.8216
Caudal artery " 611.1363
Caudatum " 611.81321
Cauliflower agric. 635.35
Cauls anatomy 611.38
Caumont fowls 636.546
Causality philosofy 122
Causation " 122
Cause and effect philos. 122
Causes
Amer. revolution **973.311**
contagious diseases 614.41
final philosofy 124
Great war 1914–19 940.311
U. S. civil war **973.711**
war of 1812 973.521
with Mexico 973.621
Spain 973.891
Causse sheep 636.3468
Caustic potassa therap. 615.775
Caux fowls 636.543
Cavalca, D. Ital. essays 854.11
Cavalcanti, G. " poetry 851.14
Cavallotti, F. " drama 852.85
Cavalry
horses 636.13
military science **357**
U. S. civ. war 973.7417
[1]Cavan, Ireland history 941.69
Cavatina music 784.2
Cave men prehis. archeol. 571.12
temples Ind. archi. 722.4
Cavernous plexus anat. 611.83912
Caves geology 551.44
natural dwellings 571.81
Cavour Ital. history 945.09

[1]Cawnpore, India " 954.2
Cayenne cherry 634.423
iland history 988
pepper 633.842
[1]Cayuga co. N. Y. history 974.768
ducks 636.59782
indians 970.3
Cecal digestion physiol. 612.363
Cecchi, G. M. Ital. drama 852.43
[1]Cecil co. Md. history 975.238
Cecum anatomy 611.347
Cedar chests, etc. 648.7
[1] co. Ia. history 977.766
[1] Mo " 977.874
ck, Va. U.S.civ.war 973.7377
mt, Va. " " " 973.7328
perfume woods 633.814
[1] Rapids, Ia. history 977.7621
run, Va. U.S.civ.war 973.7328
Ceiling lights dom. econ. 644.326
Ceilings
architecture **721.7**
carvd arch. decoration 729.58
mosaic " " 729.71
painted " " 729.48
vaulted architecture **721.4**
Celastrales botany **583.27**
Celastrineæ botany 583.271
[1]Celebes history 991.2
Celebrations
Great war 1914-19 **940.46**
invention of printing **655.12**
military 355.16
student life 371.89
U. S. history civil war **973.76**
Mex. " 973.626
revolution **973.36**
Span. war 973.896
war of 1812 973.526
Celeriac agriculture 635.128
Celery " 635.53
Celestial dynamics **521.1**
sphere 522.71
Celestina Spanish fict. 863.23
Celiac axis anat. **611.1364**
Celibacy ethics 176.2
hygiene 613.89
of clergy 254
Celiotomy surgery 617.55
Cell
houses prison architec. 725.62
ilets, interalveolar anat. 611.377
masses, intertubular " 611.377
structure histology **611.0181**
Cellar domestic economy 645.69
Cells
biology 576.3
connectiv histology 611.01821
histology anatomy **611.0181**
botany 581.8
zoology 591.8
physiologic botany **581.1**
physiology **612.014**
voltaic engineering **621.35**
see also qualifying word
Cellular
confinement prisons 365
punishm'ts 343.2
nerv substance histol. 611.01882
tissue, botany 581.8
histology **611.0181**
physiology 612.388
Cellulitis diseases 616.77
Celluloid dom. econ. 646.183
manufactures 679
Cellulose botany 581.8
physiology 612.396113
Celsius, Anders Swed. misc. 839.7835
Olof " " 839.7846
Celtic antiquities 913.36
druids religion 299.16
languages **491.6**
swine 636.441
Celts
ancient history 936
French history 944.01
stone archeol. 571.25
Cements
bilding materials 691.5
engineering " 620.136
manufacture 666.9
mineral econ. geol. 553.68
practical chemistry 542.26
steam engineering 621.1857
Cementum, diseases of 617.62
Cemeteries
earth burial 393.1
effect on helth **614.65**
landscape gardening 719
public helth **614.61**
Cemetery chapels architec. 726.8
Cenozoic period geol. **551.78**
Censers sacred vessels 247.9
Censorship of
press journalism 070.13
pol. sci. 323.445
state control 351.751
see also Books, censorship

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Censuses statistics 310
Centenarians physiology 612.68
Centennial
celebrations see subject
exhibition U. S. 606
" hist. 973.82
[1]Center co. Pa. history 974.853
of gravity physics 531.24
Centers, community 374.28
Cent-gram-second system 530.8
Centipedes zoology 595.6
Centlivre, Mrs Eng. drama 822.53
Cento novelle antiche 853.11
Central
[1] Africa history 967
travel 916.7
[1] North history 966
travels 916.6
[1] America history 972.8
travel 917.28
[1] Asia history 958
travels 915.8
fissure anatomy 611.81312
nervous system physiol. 612.82
Park, New York 711
plan rural schools 379.175
powers Great war 940.334
army life 940.484
personal narrativs 940.482
reading room lib. bldg 022.51
stations elec. engin'g 621.312
steam " 621.19
switchboard telefones 621.3854
Centralization
administrativ Eng. 354.4201
France 354.4401
Ger. 354.4301
lib. econ. 021.63
U. S. 353.01
political science 320.1
school supervision 379.15
Centre of gravity physics 531.24
Centrifugal blowers eng. 621.63
force physics 531.35
pumps eng. 621.67
separat'rs dairy 637.23214
Centripetal force physics 531.35
Centrolepideæ botany 584.82
Centrosome histology 611.01882
physiology 612.01426
Centrum ovale maj. anat. 611.8137
semiovale " 611.8137
Cephalic part of symp. syst. 611.8391
veins anatomy 611.145465
Cephalization zoology 591.4
Cephalopoda " 594.5
Ceramics bldg materials 691.4
eng. " 620.14
fine arts 738
manufacture 666.3
Ceratophylleæ botany 583.987
Cereals adulterations 614.312
agriculture 631.1
botany 584.9
food values 641.13
grain agriculture 633.1
grasses " 633.25
physiology 612.39273
trade in 338.1
Cerebellar
lobes anatomy 611.81711
peduncles, superior 611.8164
physiology 612.8267
Cerebellum anatomy 611.8171
physiology 612.827
Cerebral
arteries, anterior & mid. 611.13333
posterior 611.1349
circulation physiol. 612.824
in sleep " 612.82174
convolutions " 612.825
cortex anatomy 611.8131
ganglions physiology 612.826
peduncles anatomy 611.8154
physiology 612.8263
poisons therapeutics 615.96
veins anatomy 611.14511
Cerebration, unconscious 153
Cerebria diseases 616.83
Cerebro-cardiac poisons 615.99
Cerebrospinal
axis anatomy 611.811
circulation, diseases of 616.81
fever diseases 616.925
fluid physiology 612.8241
meninges diseases of 616.82
meningitis " 616.82
poisons therapeutics 615.98
Cerebrospinalis, fasciculus 611.8252
Cerebrum
action on bloodvessels 612.1811
hart 612.1784
respiration 612.281
anatomy 611.81
physiology 612.82
Ceremonies customs } 394.4
relig. ritual 264
Ceriman 634.7762

Cerium
group inorganic chem. 546.6
inorganic chemistry 546.62
oxalate of therapeutics 615.735
Cerro Gordo
[1] co. Ia. hist. 977.725
U. S. war with Mex. 973.6237
Certainty knowledge 121
of med. therap. 615.51
Certification of teachers 371.13
Ceruminous glands anat. 611.777
physi. 612.7929
Cervantes Saavedra, M.de
Spanish fiction 863.32
Cervera's squadron
U. S. war with Spain 973.895
Cervical
cord anatomy 611.8212
ganglion, inferior anat. 611.83916
superior " 611.83911
ganglions, symp. physiol. 612.891
glands anatomy 611.4637
nervs " 611.833
plexus " 611.8333
vertebrae " 611.7111
Cervix " 611.666
dilation obstet. op. 618.84
diseases of women 618.14
Cesari, A. Italian essays 854.67
Cession
of territory pol. sci. 320.1265
to U. S. of
Alaska U. S. hist. 973.81
California " 973.621
Florida " 973.54
Louisiana " 973.46
Philippines " 973.891
Span. hist. 946.08
Porto Rico " 946.08
Porto Rico U. S. hist. 973.891
Western ter. " 973.318
Cesspools air pollution 614.764
Cestoda parasitic diseases 616.964
Cestoids worms 595.1
Cetacea zoology 599.5
Cevennes sheep 636.3468
[1]Ceylon history 954.8
travel 915.48
Chafing dish recipes 641.585
utensils 643.335
Chailletiaceæ botany 583.255
Chain blocks 621.863
gearing 621.835
Chaind books 025.8
Chains engineering 620.11286
ship outfit 623.86
Chair harrow 631.3132
socialism 335.6
Chairs domestic econ. 645.41
lib. econ. 022.911
rail 625.15
school furniture 371.631
Chalcografy engraving 762
Chaldea ancient history 935.1
Chaldean architecture 722.5
philosofy 181.6
religion 299.22
[4]Chaldee language 492.2
Chalets architecture 728.7
Chalises sacred vessels 247.8
Chalk lithology 552.54
beds economic geol. 553.68
Challenger exped. 1873–76 508.3
Challenges duels 394.8
Chalukyan architecture 722.4
Chalybeate waters geol. 553.73
Chamber, gun ordnance 623.4237
music 785.7
Chamberland filter chem. 542.67
Chambermaids dom. econ. 647.25
Chambers
form of legislature 328.39
of commerce reports 381
[1]Chambly co. Que. history 971.437
Chameleon zoology 598.11
Chamisso A. von Ger. fic. 833.68
[1]Champagne, Fr. history 944.3
swine 636.441
Champagne chem. tech. 663.2
[1]Champaign co. Ill. hist. 977.366
[1] O. " 977.1465
Championship
games amusements 790
ethics 175.7
school hygiene 371.75
Champlain
S: de discov. of Amer. 973.18
[1]Champlain co. Que. history 971.446
[1] lake " 974.754
travels 917.4754
battle Amer. revol. 973.352
war of 1812 973.5256
Chance
games of amusements 795
ethics 175.5
natural theology 214
probabilities 519
vs cause metaphysics 122

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Chancellors lives **923.4**
Chancellorsville, Va. battle 973.7346
Chancels ecclesiology 246.1
Chancery, court of 347.99
law 347.8
reports Am. law 345.4
Eng. " 346.4
Chances mathematics 519
Chandeliers design 749
dom. econ. 644.326
lib. bildings 022.766
Change of air hygiene 613.12
form of state 321.09
seasons 525.53
Changers, frequency eng. 621.31355
Changes of blood, respiration 612.23
Channel beams engin'g 620.11282
iland cattle 636.2241
1 ilands history 942.34
Channels, hydrografy of 526.99
open hydraulics 532.54
Channing, W: E. Am. essays 814.23
Chanson de geste Fr. poet. 841.11
Roland " " 841.11
Chant, Gregorian ecclesiol. 246.8
Chants sacred music 783.5
Chapbooks 398.5
Chapelain, J: Fr. poetry 841.44
Chapels architecture 726.4
cemetery " 726.8
Chapin, E. H. Am. oratory 815.35
Chaplains ministry 262.1
army Great war 940.478
U.S.civ.war 973.778
Chaps skin disorders 616.58
Chapter-and-verse div. Bible 220.1
Chapultepec, battle 973.639
Characeæ botany 588.4
Character ethics 170
formation of 374
lib. qualifica'ns 023.52
of herd agric. 636.0821
reading 028.9
Characteristics, mental 136
Charades 793
Charbon public helth 614.561
Charcoal
and chemicals in sewers 628.237
animal chem. tech. 668.7
burning air pollution 614.735
chemic technology 662.7
drawing 741
fuel domestic econ. 644.21
Chard 635.42
Chardoon 635.327
1Charente, France hist. 944.65
1 Infèrieure, Fr. " 944.64
Charger horse 636.13
Charging systems libraries 025.6
Charismata theology 231.7
Charitable associations 361
institutions 361
Charities Amer. civ. war 973.777
and corrections 360
Great war 940.47
1Chariton co. Mo. history 977.825
Charity ethics 177.7
public admin. 351.84
schools 377.7
sisters of 271.91
sociology 361
Charlatanry quackery 133.7
Charlemagne
age of European hist. 940.14
French " 944.01
German " 943.01
legends 398.2
Charles 1 English hist. 942.062
2 " " 942.066
Charles 4 French " 944.024
5 " " 944.025
6 " " 944.026
7 " " 944.026
8 " " 944.027
9 " " 944.029
10 " " 944.062
Charles 2 German " 943.021
3 " " 943.021
4 " " 943.026
5 " " 943.031
Netherl. " 949.202
Spanish " 946.04
6 German " 943.052
7 " " 943.054
Charles 1 Spanish " 946.04
2 " " 946.053
3 " " 946.057
4 " " 946.058
Charles 14 Swedish " 948.07
1Charles co. Md. history 975.247
travels 917.5247
Charleston, S. C.
campain U. S. civ.war 973.7351
harbor, 1861 " " " 973.7311
harbor, 1864 U. S. civ.war 973.7364
1 history 975.7
naval hist. U. S. civ.war 973.753

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Charleston, S. C.
  siege Amer. revol. 973.3362
  travels 917.57
[1]Charleston, W. Va. hist. 975.438
[1]Charlevoix co. Mich. " 977.486
[1] Que. hist. 971.449
[1]Charlotte co. N. B. " 971.533
[1]Charlottetown, P. E. I. " 971.75
Charmoise sheep 636.3449
Charms occultism 133.4
Charters lib. government 023.1
  of cities 352
Chartier, A. Fr. poetry 841.21
Chartism Eng. const. hist. 342.42
Chartists " polit. party 329.942
Chartografy maps, etc. 912
Charts
  geografy 912
  history 902
  library administration 025.176
  maps 912
  of comets astronomy 523.69
    moon " 523.39
    planets " 523.49
    stars " 523.89
    statistics 311
    sun astronomy 523.79
[2] special topic see subject
Chase hunting 799
  printing 655.27
Chasing sculpture 736
Chassis gun mounts 623.4352
Chastelain, G. Fr. fiction 843.24
Chastity ethics 176.1
Chateaubriand, F. A. R. 843.65
[1]Chateaugay co. Que. hist. 971 433
Chateaux architecture 728.82
Chatham, earl of Eng. orat. 825.61
Chatrian, A. Fr. fiction 843.85
Chattanooga-Ringgold campain U. S. civ. war 973.7359
Chattel mortgage loans 332.313
Chattels law 347.3
Chatterton, T: Eng. poetry 821.63
Chaucer, G. " " 821.17
Chaulieu, G. A. de Fr. poetry 841.47
Chautauqua self-educat. 374.9
[1] co. N. Y. hist. 974.795
[1]Cheat valley W. Va. " 975.481
Cheating ethics 174.7
  student life 371.81
[1]Cheboygan co. Mich. hist. 977.487
Checkers 794
Checkrowers 631.3324
Checks banks 332.1
  commerc. law 347.7
  gun mounts 623.4351
  on legislation 328.256
Cheddar cheese 637.3542
Cheeks anatomy 611.318
Cheerfulness ethics 179.9
Cheers, college 371.89
Cheese adulterations 614.327
  dairy 637.3
  physiology 612.09285
Cheiro- *see* Chiro-
Chelonia reptils 598.13
Chemic
  affinity 541.39
  agents, effects of diseases 616.987
  analysis 543
  apparatus 542.2
  disinfectants cont. dis. 614.484
  effects of musc. contrac. 612.7442
  electricity engineering 621.35
  elements chem. tech. 661.1
    chemistry 546
  equations 541.9
  fenomena, physiologic
    nervous influence on 612.8228
    of sleep 612.82175
  fire extinguishers 614.845
  industries 660
  jurisprudence law 340.6
  laboratories 542.1
    architecture 727.5
  manipulation 542.2
  nomenclature 541.9
  phenomena, *see* fenomena
  physics 541.3
  physiology 591.1
  stimulation of nerv cells 612.8222
    nervs 612.814
  technology 660
  treatment of wastes 628.544
  works air pollution 614.72
Chemicals manufacture 661
  in sewers 628.237
Chemigraf printing 655.32
Chemistry 540
  agricultural 630.24
  analytic 543
  and natural religion 215
    physics 541.3
  applied to the arts 660
  economic zoology 591.64
  industrial chem. tech. 660
  inorganic 546

Chemistry
legal law 340.6
medical materia med. 615
of bile physiology 612.3571
cells " 612.0141
muscle " 612.744
poisons chem. anal. 543.5
toxicology 615.9
soil 631.41
organic 547
physiologic physiology 612.015
zoology 591.19
study of disease 616.076
Chemists biografy 925.4
Chemotaxis mesology 612.014467
Chemotropism " 612.014467
[1]Chemung co. N. Y. hist. 974.778
formation geol. 551.74
[1]Chenango co. N. Y. hist. 974.773
Chénier, A. M. de Fr. poet. 841.56
M. J. de " drama 842.66
Chenopodiaceæ botany 583.914
Cheques, *see* Checks
[1]Cher, France history 944.55
Cherbourg, Fr. U.S.civ.war 973.754
Cherbuliez, V. Fr. fiction 843.87
Cherimoya 634.413
[1]Cherokee co. Ia. history 977.717
Cherry 634.23
Cherry Valley massacre 973.3345
Cherub, ship war of 1812 973.5255
Chesapeake, ship " " 973.5253
[1]Cheshire, England hist. 942.71
[1] co. N. H. " 974.29
cheese 637.3542
Chess amusements 794
ethics 175.4
room lib. bildings 022.662
Chest anatomy 611.94
diseases 616.2
surgery 617.54
[1]Chester co. Pa. history 974.813
plays Eng. drama 822.11
Chesterfield " letters 826.52
Chestnut 634.53
Cheviot sheep 636.3251
Leicester sheep 636.3213
Chiabrera, G. Ital. poetry 851.51
[1]Chiapas, Mexico history 972.7
Chiasma opticum anatomy 611.8144
[1]Chicago history 977.31
travels 917.731
Chicanery ethics 174.7
Chichimec period Mex. hist. 972.012
Chick pea 635.667
Chickamauga, Ga. campain 973.7355
[1]Chickasaw co. Ia. hist. 977.7315
Chicken farming 63.65
pox diseases 616.914
pub. helth 614.525
Chicory field crop 633.78
garden crop 635.137
salads 635.54
[1]Chicoutimi co. Que. history 971.416
Chief justises biografy 923.4
librarian lib. econ. 023.4
[1]Chihuahua, Mexico hist. 972.1
travel 917.21
Chilblains skin disorders 616.58
Child labor polit. econ. 331.3
welfare 362.67
Childbirth obstetrics 618.2
Childhood 136.79
Children
abnormal child study 136.76
education 371.9
asylums for architecture 725.57
sociology 362.7
care of 649.1
clothing for dom. econ. 646.36
cookery " " " 641.562
cruelty to ethics 179.2
delineation of 136.75
diseases of 618.9
duties of ethics 173.6
education of 372
games of nursery 649.55
outdoor 796
habits of dom. econ. 649.6
hedgear for " " 646.56
hospitals for 362.7
labor of pol. econ. 331.3
manners of dom. econ. 649.6
moral care for 377
of American revolution 369.137
Children's
crusade European hist. 940.185
point of view child study 136.74
room lib. bildings 022.58
Childstudy 136.7
Chile administration 354.83
botany 581.983
finance 336.83
geology 558.3
[1] history 983
maps 912.83
schools, public 379.83
statistics 318.3

Chile travels 918.3
treaties 341.283
other top. see table 1
controversy U. S. hist. 973.86
Chili agriculture 633.843
Chiliasm millennium 236.3
[1]Chillicothe, O. history 977.1821
Chilling dairy 637.1331
Chillingham cattle 636.221
Chills and fever diseases 616.936
pub. helth 614.53
Chimes of bells music 789.5
Chimney
money taxation 336.27
pieces architecture 729.95
sweeping dom. econ. 644.2
Chimneys
architecture 729.35
heating 697.8
high sanitary eng. 628.522
masonry 693
sewer ventilation 628.236
steam engineering 621.1838
China administration 354.51
botany 581.951
finance 336.51
geology 555.1
history, ancient 931
1 **modern 951**
maps 912.51
schools, public 379.51
statistics 315.1
travels 915.1
treaties 341.251
other top. see table 1
grass fibers 633.55
jute " 633.561
ware dom. econ. 642.7
fine art 738
useful arts 666.5
Chinch bug pests 632.75
Chinese
architecture 722.1
art 709.51
discovery of America 973.12
exclusion act U. S. hist. 973.86
geese 636.59885
immigration 325.251
labor polit. economy 331.6
language 495
layering 631.5344
literature 895
melon 635.618
philosofy 181.1
Chinese
religion 299.5
servants dom. econ. 647.24
sheep 636.385
swine 636.485
watermelon 635.618
Chinkapin 634.537
Chinook language 427
Chios ancient history 939.13
1 modern " 949.93
travels 914.993
Chippewa, battle war 1812 973.5237
1 co. Mich. hist. 977.491
1 Wis. " 977.544
Chirognomy palmistry 133.6
Chirografy penmanship 652
Chiromancy palmistry 133.6
Chiropody surgery 617.58
Chiroptera mammals 599.4
Chirosofy palmistry 133.6
Chisel, pruning 631.3423
weeding 631.3155
Chitarra, C. dalla It. satire 857.12
Chitin physiology 612.396172
Chittagong fowls 636.5852
[1]Chittenden co. Vt. hist. 974.31
Chivalry, age of Europ.hist. 940.17
customs 394.7
Chive agriculture 635.265
Chlænaceæ botany 583.168
Chloral hydrate poisons 615.967
hygiene 613.83
hypnotics 615.782
temperance 178.8
Chloranthaceæ botany 583.926
Chlorideae forage crops 633.287
Chlorids fertilizers 631.832
as disinfectants 614.487
Chlorin
compounds air pollut. 614.726
mineralogy 549.4
inorganic chemistry 546.13
salts in urin physiol. 612.46161
Chloroform anesthetics 615.781
poisons 615.966
Chlorophyll botany 581.8
Chlorophyllaceæ botany 589.8
Chlorosis diseases 616.15
Choate, Rufus Am. oratory 815.32
Chocolate adulterations 614.347
agriculture 633.74
beverages 641.87
manufactures 663.9

Choctaw language 497
literature 897
Choice
freedom of metaphysics 123
psychology 159
of editions 028.2
vocation 374.1
Choir music 783.8
Choke cherry 634.24
coils elec. eng. 621.3146
Cholagogs therapeutics 615.742
Choledic duct anatomy 611.367
Cholemia physiology 612.35765
Cholera
diseases 616.93
infantum pub. helth 614.515
protectiv inoculation 614.475
public helth 614.514
Cholesterin blood 612.123
nutrition 612.39781
Chondrocostal joints 611.723
Chondrostei fishes 597.4
Chondrosternal joints 611.723
Choral servis sacred music 783.24
Chorale " " 783.6
Chord process geodesy 526.43
Chorda tympani anatomy 611.83175
salivation 612.81977
taste 612.877
Chorea diseases 616.851
Choriambics Gk prosody 486.3
Chorion embryology 611.01384
Choroid anatomy 611.8423
eye diseases 617.72
physiology 612.8425
plexus anatomy 611.8192
physiology 612.8241
Chorus college songs 784.6
sacred music 783.8
vocal " 784.86
[1]Chosen history 951.9
travel 915.19
Chrestien de Troyes Fr.poet. 841.14
[3]Chrestomathy Eng. lang. 428.7
Christ doctrinal theol. 232
life of 232.9
Christening baptism 265.1
customs 392.1
Christian
apologetics 239
architecture, eccles. 726
medieval 723
art 246
associations 267
Christian
Brothers monks 271.78
church 260–289
commission U.S.civ. war 973.7781
connection sects 289.9
[1] co. Ill. history 977.381
[1] Mo. " 977.879
doctrins 230
education 377
ethics 171.1
evidences 239
fathers relig. hist. 270
works of 281.1
iconografy relig. art 246
sculpture 732
institutions 260
life personal religion 248
names 929.4
philosofy patristics 189.2
science church 289.5
biografy 922.85
healing law 614.24
theology 230.99
therap. 615.851
sects 280
socialism 335.7
Sunday 263.3
union 280
unions, young men's 267.233
[1]Christiania, Norway hist. 948.2
trav. 914.82
Christianity
and science apologetics 239.8
evidences 239
history 270–289
primitiv 270.1
Christians biografy 922
sect 286.6
biografy 922.6
[1]Christiansand, Nor. hist. 948.3
Christine de Pisan Fr. fic. 843.21
Christmas
customs 394
festival music 783.28
school holiday 371.365
Christology doctrin. theol. 232
Christ's thorn agriculture 634.744
Chromates mineralogy 549.74
Chromatic
aberration optics 535.4
scale theory of music 781
Chromatics optics 535.6
Chromatografy 752
Chromatolysis physiol. 612.01424

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Chromatophores physiol. 612.796
Chromium econom. geol. 553.46
inorg. chem. 546.76
group " **546.75**
Chromolithografy 764
Chromometry colorimetry 545.8
Chromophotografy 770
Chromosome bodies phys. 612.01424
Chromosphere sun 523.75
Chromoxylografy 761
Chronic diseases pathol. 616
Chronicles Bible 222.6
history see special subj.
Chronofotografy physiol. 612.761
Chronograf astronomy 522.52
instruments 529.78
manufacture 681
Chronograms 529.3
Chronologies history 902
Chronology astronomy 529
biblical Bible 220.94
Chronometer
astron. instruments 522.51
longitude determination 525.47
manufacture 681
Chrysanthemums horti. 716.2
Chrysippus stoic philos. 188.3
Chrysolitic rocks 552.48
Church 260–289
and clergy law 348
education 377.8
state eccl. polity 261.7
ethics 172.3
persecutions 272
polit. science 322
Apostolic 281.1
architecture 726
attendance 264
authority 262.8
bells manufactures 673
music 789.5
benefises cleric support 254
biografy 922
calendar, Anglican 264.031
Christian 260–289
decoration sacred orn. 247
disciplin eccles. polity 262.9
entertainments 259
fathers 281.1
fellowship 265.2
festivals worship 264
furniture 247
government 262
history 270–289
Church
membership ordinances 265.2
music 783
needlework 247
of England 283
Rome 282
Scotland 285.2
polity 262
primitiv 270.1
property
monastic foundations 271
polit. science 322
taxation 336.29
rates cleric support 254
religious history 270–289
sacraments 265
schools 377
sects 280
servises pub. worship 264
[4] Slavonic language 491.81
sociology 322
unity 280
vestments 247.7
work 260
yards cemeteries 719
Churches
and American revolution 973.315
Great war 1914–19 940.3152
U. S. civil war 973.715
architecture 726.5
burials in pub. helth 614.613
hygiene 613.55
library propagandism 021.76
national vs organic unity 261.8
various christian 280
Churchill, C: Eng. satire 827.61
Churning agriculture 637.2332
Churns " 637.2322
Churra sheep " 636.366
Churubusco, battle 973.6238
Chute wagons farm transport 631.3725
Chutes domestic econ. 643.6
Chyle bloodmaking 612.119
digestion 612.3327
Chyliferous vessels physi. 612.33273
Chyluria " 612.46662
Cibber, Colley Eng. dram. 822.54
Cibol 635.264
[1]Cicada agriculture 632.75
econ. zoology 591.69
syst. " 595.75
Cicatrization
of bone physiology 612.753
liver " 612.359

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Cicatrization
of nerv centers physiol. 612.82256
nervs " 612.81853
physiology 612.603
Cicero complete works 875.1
Greek philosofy 186.3
letters 876.1
life 928.75
orations 875.2
philosofic works 875.4
rhetorical works 875.3
Cid, Poema de mio 861.12
Romancero del 861.27
Cider chem. technology 663.1
Cienfuegos, N.A. de 861.48
Cifer writing 652
Cigar making 679
see also Tobacco
Cilia
anatomy of eye 611.8475
histology 611.01818
physiology of eye 612.847
vibratil physiology 612.72
Ciliary
body anatomy 611.8425
eye diseases 617.72
physiology 612.842
ganglion anatomy 611.89152
glands " 611.775
muscle " 611.8425
processes " 611.8425
Ciliata zoology 593.17
Cilicia ancient history 939.35
[1] modern " 956.4
travel 915.64
Cinchonia materia med. 615.336
Cincinnati
[1] city, O. history 977.178
travels 917.7178
society of 369.131
daughters of 369.132
Cinematics mechanics 531.1
Cinerary urns customs 393.2
Cinerea anatomy 611.822
Cinnamon agriculture 633.833
Cipher writing 652
[1]Circassia history 947.9
Circassian sheep 636.385
Circle Ger. local gov. 352.0433
of Willis anat. 611.1349
sailing, great 527.5
Circles perspectiv 515.65
plane geometry 513.21
prehist. archeol. 571.95
Circuit breakers elec. eng. 621.31736
court reports, U. S. 345.41
Circular arches architec. 721.41
domes " 721.46
functions trigo. 514.1
section of sewers 628.223
Circulars, lib. propagandism 021.72
Circulating
dept hours lib. econ. 024.36
libraries 027.3
Circulation
and blood physiology 612.1
arterial " 612.133
artificial " 612.1725
capillary " 612.135
cerebral " 612.824
in sleep " 612.82174
cerebro-spinal diseases 616.81
effect of
glands on physiol. 612.402
on glands " 612.401
respiration on " 612.213
special organs on " 612.19
embryonic " 612.179
hepatic " 612.3515
hydraulic princip. of " 612.13
in animals zoology 591.11
lungs physiology 612.2158
muscles " 612.74161
plants botany 581.11
spleen physiology 612.412
intestinal " 612.3355
lymfatic " 612.423
money 332
oceanic ocean currents 551.47
ocular physiology 612.8426
of blood history 612.109
prenatal physiol. 612.179
pressure in physiology 612.14
renal " 612.4634
retinal " 612.84313
uterin " 612.6271
venous " 612.134
Circulators elec. eng. 621.3525
Circulatory
organs comp. anat. 591.41
descr. " 591.71
system anatomy 611.1
diseases of 616.1
drugs acting on 615.71
system physiology 612.1
surgery 617.41
Circumanal glands anat. 611.776

Circumcision customs 392.1
surgery 617.46
Circumflex
axillary arteries anat. 611.1341
iliac artery, deep " 611.13782
extern. " 611.137842
Circumnavigations 910.4
Circumpolar stars maps 523.89
Circumposition layering 631.5344
Circumstantial evid. law 347.94
Circumvallation mil. eng. 623.22
Circuses amusements 791
ethics 175.1
feeding 641.577
Cirripedia zoology 595.35
Cissoid curvs anal. geom. 516.26
Cistercian monks 271.12
Cisterns rural water sup. 628.7
Cistineæ botany 583.134
Citadel mil. engineering 623.132
Cités ouvrières architec. 728.13
Cities
administration **352**
ancient description **913.3**
beautification 710
buried description **913.3**
free German gov. 354.4309
growth of administration 352.001
statistics 312
helth of 614.145
plans of **912**
scavenging of **628.4**
water and sewerage wks **628.09**
Citizens, duties of ethics 172.1
Citizenship
constitutional amendment
U. S. history 973.81
law 347.1
political science **323.6**
Citrates diuretics 615.761
Citrin perfume plants 633.813
Citron 634.331
group fruits **634.33**
melon 635.615
Citrous fruits agric. **634.3**
City
governments adminis. **352**
halls architecture 725.13
homes of poor " 728.11
hotels " 728.51
houses " **728.3**
life
mortality pub. helth 614.145
City
planning 710
special cities **914–919**
property local gov. 352.1
transit sociology 388
vs country colleges 378.153
Cive agriculture 635.265
Civil
authority local gov. **352**
engineering **620**
government polit. sci. **320**
and the church 322
ethics 172.3
relig. 261.7
law **349**
liberty polit. science **323.44**
lists 351.2
pensions administra. 351.5
procedure law **347.9**
rights constitutional law **342**
legal capacity 347.1
act U. S. hist. 973.82
servis administration **351**
library econ. 023.2
municipal gov. 352.005
officials, lives **923.5**
suffrage 324.173
reform admin. 351.6
1871 U.S.hist. 973.82
1883 " 973.84
trials **347.9**
war ass'ns, confederate **369.17**
Union **369.15**
ethics 172.4
slavery **326**
U. S. history **973.7**
Civility ethics 177.1
Civilization and the church 261.6
history 901
philosofy of 901
primitiv **571**
[1]Clackmannan, Scot. hist. 941.35
Claims against governments **336**
U. S. court of hist. 347.99
reports 345.41
Clairvoyance 134
Clambakes dom. econ. 642.45
Clamps practical chem. 542.24
Clams culture 639.4
zoology 594.1
Clans genealogy 929.2
political science 321.2
Scottish history 941

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[1]Clare co. Ireland history 941.93
[1] Mich. " 977.471
Clarinet wind instru. 788.6
[1]Clarion co. Pa. history 974.869
[1]Clark co. Ill. history 977.371
travels 917.7371
[1] Ind. history 977.218
[1] Mo. " 977.834
[1] O. " 977.149
[1] Wis. " 977.528
[1]Clarke co. Ia. history 977.7856
Clarke's colum anatomy 611.8223
Clark's exped. Am. revol. 973.3348
[1]Clarksburg, W. Va. hist. 975.458
Class
days student customs 371.896
feeling ethics 177.5
meetings pub. worship 264.8
representation pol. sci. 328.3344
re-unions colleges 378
student cus. 371.89
room lib. bildings 022.653
system suffrage 324.214
Classed catalogs bibliog. 017
lib. adm. 025.3
Classes
of library constituency 021.28
school organization 371.25
social, courses for different 375.007
political sci. 323.3
Classic
antiquities 913.38
biografy 920.03
education 375.88
geografy 912.3
literature 880
Greek 880
Latin 870
mythology 292
[4] **philology Greek lang. 480**
[4] **Latin " 470**
schools, private educ. 373
public " 379
Classics Greek literature 880
Latin " 870
Classification
chemistry 541.9
library 025.4
of animals zoology 590.1
books lib. econ. 025.4
diseases medicin 616.01
of economics 330.12
knowledge methodol. 112
languages philology 401
Classification
of plants botany 580.1
primary cells el. eng. 621.3538
sciences nat. sci. 501
soils 631.44
philosofy 112
Claustrum anatomy 611.81323
Clavichord mus. instrum. 786.1
Clavicle anatomy 611.7172
Clay, Henry Am. oratory 815.25
Clay chemic technology 666.4
[1] co. Ill. history 977.3795
travels 917.73795
[1] Ind. history 977.244
[1] Ia. " 977.715
[1] Mo. " 977.816
[1] W. Va. " 975.467
modeling elem. educ. 372.53
petrografy 552.52
Clays economic geol. 553.61
[1]Clayton co. Ia. history 977.736
Clayton-Bulwer treaty 973.64
Cleaners library servis 023.796
vacuum dom. ec. 648.52
engin'g 621.55
Cleaning chem. tech. 667.1
dom. econ. 648
dry domestic econ. 646.6
farm operations 631.562
laundry domestic econ. 648.1
pneumatic 621.549
tools for agriculture 631.362
Cleanliness, *see* Clenliness
Cleanthes stoic philos. 188.2
Clean-up week sanitation 628.44
[1]Clearfield co. Pa. history 974.861
Clearing house banking 332
for lib. dupli. 025.267
Cleavage crystallografy 548.3
geology 551.84
Cleft grafting 631.54131
Clemency ethics 179.9
Clemens, S: L. Am. humor 817.44
Clement philosofy 189.2
Clementine sheep 636.373
Clementines Apocrypha 229.9
Clenliness
of body hygiene 613.4
clothing " 613.483
markets dom. econ. 641.4
zootechny 636.0832
Cleopatra's needle monu. 718
Clepsydra chronology 529.78
Cleptomania derangem'ts 132.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Clerc, Jean de Dutch misc. 839.381
Clergy
and Amer. revolution 973.315
Great war 940.3152
U. S. civil war 973.715
benefit of legal antiqui. 340.3
canon law 348
celibacy ethics 176.2
pastoral theol. 254
ethics 174.1
holy orders 262.1
in legislativ bodies 328.3324
library propagandism 021.76
lives of 922
pastoral work 250
reservs Can. hist. 971.3
Cleric support 254
tithes 336.21
Clerical servis lib. econ. 023.76
Clerks legislativ employees 328.3623
lib. econ. 023.763
occupation hyg. 613.65
[1]Clermont co. O. history 977.179
Cleveland, G. 1st presidency 973.85
2d " 973.87
[1]Cleveland, O. history 977.1
travels 917.71
Cleveland bay horse 636.1421
Cliff dwellings archeol. 571.84
Climacterics physiology 612.66
vital statis. 614.13
Climate
effects of diseases 616.988
mental char. 136.2
therapeutics 615.834
farm economics 631.11
hygiene 613.11
influence on man 573.4
physical geology 551.5
relation to ration physiol. 612.3955
seasons 525.5
Climatology contag. dis. 614.42
phys. geog. 551.5
Climbers birds 598.7
Climbing plants habits 581.5
Clinics medical educa. 610.7
[1]Clinton city, Ia. history 977.7671
[1] co. Ill. " 977.387
travels 917.7387
[1] Ind. history 977.255
[1] Ia. " 977.767
[1] Mich. " 977.424
[1] Mo. " 977.8155
[1] N. Y. " 974.754
[1]Clinton, Pa. history 974.854
Fort Am. revol. 973.3355
Clinton's advance " " 973.3335
Clipping pruning 631.54223
zootechny 636.0833
Clippings lib. adminis. 025.175
lit. methods 029.3
Clitoris anatomy 611.675
Cloakmaking dom. econ. 646.45
trade 687
Clock, sidereal 522.51
Clockmaking 681
Clocks artistic furniture 749
chronology 529.78
dom. economy 645.5
lib. " 022.923
Clod breakers 631.3143
crushers 631.3143
Cloisterd nuns 271.96
Cloquet's canal anat. 611.8447
Close communion baptists 286
sacrament 265.3
vs broad classification 025.4
Closed circuit cells eng. 621.3536
Closet, earth san. engin'g 628.43
water air pollution 614.764
san. engin'g 628.6
Closing of libraries lib. econ. 024.4
Cloth manufactures 677
Clothes dom. economy 646
Clothesmaking trade 687
Clotheswringers dom. econ. 648.3
Clothing
adapted to season 646.09
care of children 649.4
disinfection, contag. dis. 614.48
domestic economy 646
for frigid zones dom. ec. 646.091
tropics " " 646.092
hygiene 613.48
of laboring classes 331.83
physiology of 612.5211
support from hips 613.484
Clouds meteorology 551.57
artificial agriculture 632.114
Clover heders 631.3543
Clovers forage crops 633.32
zootechny 636.08632
Cloves spice plants 633.832
Club foot surgery 617.39
houses architecture 728.4
libraries 027.2
table system 642.54

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Clubs
boys sociology 369.42
agric. 630.717
domestic economy 647.94
girls sociology 369.46
agric. 630.717
library economy 020.62
literary education 374.2
social 367
workingmen's architec. 725.93
Clun Forest sheep 636.3243
Clusters and nebulæ stars 523.85
Clutches mech. engin'g 621.825
Clydesdale horse 636.1521
Cnidaria zoology 593.5
Coach bilding mech. trade 684
horse 636.14
Coaching amusements 798
business 656
Coachman dom. econ. 647.3
Coagulation
of blood leucocytes 612.1125
physiology 612.115
Coal
economic geology 553.2
fuel chemic technology 662.6
domestic economy 644.22
metallurgy 669.8
gas domestic lights 644.313
heating 697.6
illuminating 665.7
heating prac. chem. 542.42
mineralogy 549.8
mining 622.33
oil chemic tech. 665.4
domestic lights 644.312
economic geology 553.28
mineralogy 549.8
tar colors chem. tech. 667.2
products " " 668.7
therapeutics 615.75
trade 338.2
washing ore dressing 622.78
Coalescence
fetuses deformities 617.35
embryology 611.012
incomplete deformities 617.32
of parts " 617.33
Coast
artillery gunnery 623.553
mil. engin'g 623.417
changes erosion 551.36
defense military eng. 623.3
frontier pol. sci. 320.1288
Coast
mounts ordnance 623.433
pilot 656
survey, U. S. geodesy 526
tides 525.64
Coasting sports 796
Coasts, hydrografy of 526.99
Coatroom lib. bildings 022.685
attendants, lib. 023.794
Coats, indoor dom. econ. 646.43
of arms heraldry 929.8
outdoor dom. econ. 646.45
Cobalt inorg. chem. 546.73
ores econom. geol. 553.48
Cobnut 634.54
Cobs horse 636.13
Coca hygiene 613.85
Cocain anesthetics 615.781
Cocainism
ethics 178.8
hygiene 613.85
medicin 616.86
Coccygeal
joints anatomy 611.7218
gland " 611.48
muscles " 611.7369
nervs " 611.836
Coccyx " 611.7118
Cochil sapota 634.343
[1]Cochin China, Fr. history 959.7
fowls 636.5851
Cochineal agriculture 638.3
dyeing 667.2
Cochlea anatomy 611.8521
physiology 612.8584
Cochlear nerv anat. 611.83181
nucleus " 611.8177
path " 611.83181
Cock fighting 791
ethics 175.6
Cockles culture 639.4
Cockroaches dom. econ. 648.7
zoology 595.72
Coco adulterations 614.347
agriculture 633.74
beverages 641.87
manufacture 663.9
palm fruit culture 634.61
Coconut fruit culture 634.61
fiber 633.581
Cocoon silkworms 638.2
Cod fishery fishing 639.2
Code Napoleon Fr. law 349.442
telegrafy, hand operat. 621.3823

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Codes American law 345.22
telegrafic elec. eng. 621.38215
Codices Bible mss 220.4
Codification
legislation 328.23
of law U.S. law 345.2
Coeducation 376.7
of races 371.99
Coele Syria anc. history 939.42
Coelenterata zoology 593.3
Coeliacus plexus anat. 611.83931
Coelom " 611.389
embryology 611.01366
Coffee adulterations 614.347
agriculture 633.73
botany 583.52
commercial mix. of 663.9
domestic economy 641.87
houses customs 394.1
hygiene 613.37
physiology 612.3932
stimulants 615.711
Cofferdams bridgebilding 624.157
river eng. 627.8
Coffins burial customs 393.1
perishable pub. helth 614.614
Cognition metaphysics 126
Cogwheels mech. eng. 621.83
[1]Cohahuila, Mex. hist. 972.1
Coherers wireless teleg. 621.3843
Cohesion physics 539.2
Coils
choke elec. engin'g 621.3146
elec. apparatus physics 537.86
induction elec. engin'g 621.3147
theory of dynam. elec. 537.51
Coin collectors, telefone 621.38692
Coinage administration 351.822
polit. economy 332.4
act U. S. history 973.82
Coins numismatics 737
Coir agriculture 633.581
Coke chemic tech. 662.7
domestic. econ. 644.22
metallurgy 669.8
Cola 633.76
[1]Colchester co. N. S. history 971.612
Colchis, Asia ancient hist. 939.53
Cold
antipyretics 615.75
baths hygiene 613.43
drinks " 613.36
exposure to protec. of life 614.87
Cold
frames forcing 631.5442
protection 631.3442
Harbor, Va. U.S.civ.war 973.7368
imponderable remedies 615.832
physics 536
physiologic effects 612.59
protection of animals 636.08361
storage architecture 725.35
food preservat. 641.4
wether cookery 641.591
Colds catarrh 616.205
[1]Cole co. Mo. history 977.855
Colenso controv. Pentateuch 222.1
Coleochaeteæ botany 589.47
Coleoptera pests 632.76
zoology 595.76
Coleridge, S: T. Eng. poetry 821.72
[1]Coles co. Ill. history 977.372
Coleshill swine 636.4223
Colic diseases 616.34
painters poisons 615.928
[1]Colima, Mexico history 972.3
Coliseum Rom. antiq. 913.376
Collapse lung diseases 616.249
Collar bone anat. 611.7172
Collards 635.347
Collars toilet 646.48
Collation library econ. 025.235
Collected biografy 920
sermons 252
travels 910.8
works, see subject
Collecting
biology 579.6
book library econ. 025.2
bottle biology 579.612
business methods 658
Collection of fertilizers 631.812
taxes finance 336.29
Collections
art galleries 708
engravings 769
of poetry Amer. liter. 811.08
" Eng. " 821.08
photografy 779
special library rooms 022.64
useful knowledge 602
vocal music 784
other topics, see subject
Collectiv housekeeping 647.9
Collectors elec. traction 621.3344
manuals biology 579
Collects Anglican ritual 264.036

College
cheers student customs 371.89
degrees 378.2
education, cost of 378.368
electoral suffrage 324.249
entrance requirements 371.214
founders' lives 923.7
journalism colleges 378.05
journalism 070.489
libraries 027.7
functions 371.647
men in Amer. revolution 973.315
men in U. S. civ. war 973.715
responsibilities 378.069
regattas athletics 371.75
relief units Great war 940.4777
settlements labor. classes 331.85
societies student life 371.83
songs 784.6
sports 371.74
Y. M. C. A. 267.361
Colleges
agricultural 630.711
and universities 378
architecture 727.3
business 650.7
for women 376.8
separate vs coed. 376.7
gymnastics in 371.7324
hygiene 613.54
in American revolution 973.315
U. S. civ. war 973.715
Collegiants sects 284.9
Collegiate education women 376.6
Collenuccio, P. Ital. essays 854.24
Collier controv. Shakspere 822.33
Collieries mining eng. 622.23
Colliers shipbilding 623.826
Collimation constant astron. 522.35
Collin-Harleville, J. F. 842.62
Collins, W: Eng. poetry 821.57
Collisions at sea marit. law 347.7
Collodion process photog. 772
Colloids mesology 612.0144625
theoretic chem. 541.3452
Colman, G: sr Eng. drama 822.63
[1]Cologne history 943.42
travel 914.342
[1]Colombia, S. Am. history 986
travels 918.6
Colon anatomy 611.348
Colonial dames of Amer. 369.122
nat'l soc. of 369.123
daughters of 17th century 369.128
Colonial
history, U. S. 973.2
law English statutes 346.1
order of the acorn 369.126
representation pol. sci. 328.3343
societies 369.12
society of Pennsylvania 369.127
system political science 325
wars, society 369.121
Colonies political science 325
Colonization, African 325.6
hist. of Africa 960
political sci. 325.3
Colonizing electoral fraud 324.272
Colonnades arch. design 729.32
walls 721.26
Colony
character stockbreeding 656.0821
composition " 656.0823
Colophons incunabula 093
Color
blindness eye diseases 617 75
physiology 612.8455
fotografy 772
in man nat. hist. of man 573.5
plants botany 581.157
of animals zoology 591.157
blood physiology 612.111
optics 535 6
painting 752
printing 655.32
sense mental faculty 152.1
sight physiology 612.84331
suffrage 324.15
Colorado, U. S.
admission U. S. history 973.82
discovery of America 973.16
[1] history 978.8
mil. hist. U. S. civ. war 973.7488
war with Spain 973.89488
river hemp 633.566
travel 917.88
Coloration of flame chem. 542.52
Colorational variation zool. 591.157
Colord audition physiol. 612.84373
men Y. M. C. A. 267.365
races somatology 573.5
tiles roofs 721.56
swine, medium 636.426
Colorimetric analysis chem. 545.8
Coloring
butter 637.26
dyeing 667.2

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Coloring
matter of bile physiol. 612.35713
urin " 612.46127
matters org. chem. 547
Colors
artificial chem. tech. 667.2
college 378.28
ecclesiology 246.6
literary methods 029.1
manufacture of paints 667.6
military science 355.15
painting fine arts 752
trade 698.1
practical printing 655.32
Colosseum Rom. antiq. 913.376
Colossians epistles 227.7
Colossus of Rhodes monum. 718
Colostrum physiology 612.66435
Colportage parochial 259
Colt gun ordnance 623.4225
Colum, spinal anatomy 611.711
Columbates mineralogy 549.71
Columbia college 378.747
[1]Columbia co. N. Y. hist. 974.739
[1] Pa. " 974.838
[1] Wis. " 977.581
[1] Dist. of " 975.3
trav. 917.53
[1]Columbiana co. O. hist. 977.163
Columbium inorg. chem. 546.891
Columbus discov. of Amer. 973.15
[1]Columbus O. history 977.157
day sch. observ. 371.365
Columelliaceæ botany 583.829
Colums
architectural construc. 721.3
design 729.32
carpentry 694.4
carvd arch. decorat. 729.57
of cord, posterior anat. 611.826
painted arch. decorat. 729.47
sculpture 730
strength of materials 620.11283
[1]Colusa co. Cal. hist. 979.433
Combat, judicial leg. antiq. 340.3
Combination
arithmetic 511.5
cars railway engin'g 625.24
Combinations
industrial polit. econ. 338.8
of capital " 331.1
labor " 331.87
Combinatory anal. algebra 512.5
Combined
harvester and thresher 631.3542
system of sewerage 628.211
Combretaceæ botany 583.414
Combs customs 391.5
Combustibles, storage 614.831
Combustion
chemistry 541.39
engins, internal 621.43
heat 536.46
in furnaces indus. sanit. 628.524
steam generation 621.182
locomotivs 621.1331
[5]**Comedy Eng. drama 822**
Comella, L. F. Span. " 862.41
Comets 523.6
charts 523.69
connection with meteors 523.56
maps observations 524.6
observation of 523.69
theory 521.7
[5]Comic journals Eng. liter. 827
journalism 070.487
music dramatic 782.6
[5] **works Eng. liter. 827**
Commagene, Asia anc. hist. 939.36
Command mil. science 355.331
Commanders biografy 923.5
Commelinaceæ botany 584.38
Commemorations
Great war 1914-19 940.46
military science 355.16
U. S. history civil war 973.76
Mex. " 973.626
revolution 973.36
Span. war 973.896
war of 1812 973.526
Commemorativ sermons 252.9
Commensalism zoology 591.5
Commentaries, Bible 220.7
law 347
Commerce, interstate 385
regulation law 347.7
sociology 380
useful arts 650
Commercial
agencies credit 332.7
arithmetics mathematics 511.8
bildings architecture 725.2
care of 647.96
establishments library 020.65
fertilizers air pollution 614.748
industry state control 351.824
law 347.7

Commercial
morals ethics 174
panics polit. economy 332
travelers Y. M. C. A. 267.363
traveling commerce 658
Commissions
bilding 692.8
library 027.4
middlemen pol. econ. 331.236
ordnance 623.4823
parliamentary legislat'n 328.372
special " 328.3628
Commissure
extension of deformities 617.34
of cord, anterior anat. 611.8258
posterior " 611.8269
Committee
procedure legislation 328.3742
Committee
legislativ bodies 328.3627
library 023.3
see also distinctiv name
Common bantams 636.58711
carriers law 347.7
currant 634.722
law, American 345
British 346
right copyr't 655.61
treatises 347
pleas, court of 347.99
prayer Ang. rit. 264.03
schools, public 379
Commonplace books 029.4
Commons, house of Eng. 328.42
student life 371.88
Commonwelth Eng. hist. 942.063
Rom. " 937.02
Commonwelths, ideal 320.1
Communal marriage 392.6
Commune, French loc. gov. 352.0446
Ger. " " 352.0434
of 1871 Fr. hist. 944.08
polit. economy 335
Communes, age of, in Italy 945.04
Communication
administration 351.81
electric engineering 621.38
farm economics 631.11
heat 536.2
magnetism 538.2
mode of contag. dis. 614.43
sociology 380
useful arts 650
Communion, close baptists 286
holy sacram. 265.3
servis mus. 783.21
Communism polit. econ. 335.4
Communists, French 335
Community
centers 374.28
of land pol. econ. 333.2
Commutators elec. engin'g 621.316
physics 537.6
Compact ethics 174.7
Companies associations 360
joint stock law 347.7
Comparativ
anatomy animals 591.4
plants 581.4
embryology zoology 591.3
legislation 340.5
medicin 619
mythology 291
philology 410
physiology zoology 591.1
religion 290
theology dogmatics 230
wages polit. economy 331.2
Comparetti, D. Ital. essays 854.86
Comparison
[3] signs of Eng. etymol. 422.6
inflection 425.16
Compass magnetism 538.7
variations of astron. 522.76
Compasses ship outfit 623.86
[2]Compends, see subject
Compensation
labor pol sci. 331.2
legislatures 328.333
Compensator potential
regulators elec. eng. 621.31451
Compensators " " 621.31327
Competency
of voters pol. sci. 324.14
Competition prices 338.5
wages 331.2
Competitions
agricultural 630.719
school 371.535
Competitiv
examinations, civ. serv. 351.3
schools 371.27
music festivals 784.5
Complex ores metallurgy 669
variables calculus 517.8
Complexus muscle anat. 611.7314
Complications in labor obst. 618.5

Compline Anglican ritual 264.034
Composers biografy 927.8
Composit
electrode arcs elec. light 621.3256
floors and flooring 721.65
fuels steam engineering 621.18225
order of architecture 729.32
power electric plants 621.312135
ships shipbilding 623.84
structures arch. const. 721.94
Compositæ botany 583.55
Composition
architectural design 729.11
artistic typesetting 655.25
butter 637.22
cheese 637.32
elementary English 428.2
fertilizers 631.813
food zootechny 636.0851
milk 637.127
music 781.6
rhetoric 808
soil 631.411
typesetting 655.25
with creditors law 347.7
Compost heap agric. 631.875
Compound
engins 621.11262
floors and flooring 721.64
stationary engins 621.1647
structures bridgebilding 624.7
wound generators 621.313234
Compounds
types of chem. 541.4
with metals org. chem. 547.9
Compressibility of air pneu. 533.2
Compressing rams engin'g 621.274
Compression
of brain physiology 612.82455
gases physics 533.2
strength of materials 620.11242
Compressor nasi anat. 611.7323
Comprest air engins 621.42
machinery 621.5
therapeutics 615.836
Compromise
ethics 171
Missouri U. S. history 973.54
of 1850 " civ. war 973.7113
" history 973.63
tariff act " " 973.56
Compromises, slavery
U. S. hist. 973.7113
[1]Compton co. Que. history 971.468
Compulsory
education 379.23
insurance 331.25
labor polit. econ. 331.57
vaccination pub. helth 614.4738
voting political sci. 324.215
Compurgation legal antiq. 340.3
Computation arithmetic 511
bridge stresses 624.171
Comte French philosofy 194.8
positivism 146
Comtoise sheep 636.3443
Concept mental philos. 153.1
of state pol. sci. 320.15
Conception
immaculate Christology 232.1
physiology 612.63
Concert room lib. bildings 022.651
teaching 371.31
Concertina music 786.9
Concerto orchestral mus. 785.6
Concerts amusements 791
Conchae anat. 611.7147
Conchifera brachiopoda 594.8
lamellibranch. 594.1
Conchoid curv anal. geom. 516.26
Conchology 594
Conclave, papal eccles. pol. 262.13
Concord, battle Am. revol. 973.3311
philosofy 191.3
Concordances, Bible 220.2
[2] special, see subject
Concordat eccles. polity 262.13
internat. law 341.2
Concrete
bilding material 691.3
ceilings 721.75
chemic technology 666.8
construction 693.5
engineering material 620.136
floors architecture 721.62
fortifications mil. eng. 623.123
foundations 721.13
pavements engin'g 625.84
piers and colums 721.33
reinforced engineering 620.137
roofing 695.6
roofs architec. 721.52
sidewalks pavements 625.8
village houses 728.64
walls 721.23
see also special structures
Concretion geologic agent 551.98
Concubinage sex customs 392.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Concussion injuries 617.21
of brain physi. 612.82455
Condemd books rarities 098
Condensation
action of heat 536.44
of effluvium sanit. eng. 628.523
vapor pneumatics 533.1
Condensed milk dairy 637.142
pub. helth 614.324
Condensers chemistry 542.48
elec. engin'g 621.315
electricity 537.24
steam engin'g 621.1976
telefone 621.3865
Condensing engins 621.11252
pump pneu. 533.83
Condenst milk dairy 637.142
pub. helth 614.324
Condillac French philos. 194.3
Condimental
herbs field crops 633.84
garden " 635.7
Condiments adulterations 614.314
chem. tech. 664.5
zootechny 636.0877
Conditional
immortality 237.3
sentences English 425.4
Greek 485.4
3 other lang.
Conditions influencing animal temperature 612.54
Condits
electric lines 621.319233
subsurface roads 625.78
telegraf 654.4
ventilation 697.9
waterworks 628.14
Conduct of life ethics 170
Conduction electricity 537.22
heat 536.2
Conductivity of rocks geol. 551.14
Conductors elec. engin'g 621.3193
Condylarthrosis anat. 611.72962
Cone modern geometry 513.53
solid " 513.42
Conestoga draft horse 636.158
Confectionery 641.85
adultera. 614.311
Confederacy, daughters of 369.175
Confederate
navy U. S. civ. war 973.757
Confederate
states of Amer. formd 973.713
civ. war 973.7
survivors association 369.171
veterans " 369.172
united 369.174
united sons of 369.173
Confederation
American colonies 973.318
Canadian provinces 971.05
form of state 321.022
North German 943.081
of the Rhine 943.06
1783–89 U. S. history 973.318
Conference meetings, church 264.7
Conferences
legislativ procedure 328.3742
library 020.6
on candidates suffrage 323.233
Confession
and absolution sacram'ts 265.6
Augsburg creeds 238.4
auricular sacram'ts 265.6
Confessional Roman ch. 282
Confessions creeds 238
of faith ritual 264.5
Confidence practises 174.6
Confinement
obstetrics 618.4
punishment crim. law 343.2
schools 371.56
solitary, crim. law 343.2
prison disciplin 365
Confirmation sacraments 265.2
Conflagrations 614.84
Conflict of duties 171
laws intern. law 341.5
Conformity Anglican ch. 283.42
Confucianism religion 299.5
Confucius Chinese philos. 181.1
Congelation physics 536.43
Congenital
defects of body hyg. 613.91
teratol. 611.012
distortions surgery 617.39
Congestion of the lungs 616.242
Conglomerate lithology 552.51
Congo, *see* Kongo
Congregation eccle. polity 262.2
Congregational church 285.8
creed 238.5
orders 262.19
singing 783.9
Congregationalism sects 285.8

Congregationalists lives 922.5
Congress
of nations intern. law 341.1
Vienna Europ. hist. 940.27
internat. law 341.1
U. S. legisl. bodies 328.73
Congresses, library 020.63
[2] see also special subject
Congressional
debates, U. S. 328.732
directories " 328.738
documents " 328.734
Congreve, W: Eng. drama 822.46
Conic
projections descrip. geom. 515.4
spheric " 515.56
sections analyt. geom. 516.22
geometry 513.22
Conicoids analytic geom. 516.42
Conics " " 516.53
modern " 513.53
Coniferæ botany 585.2
Conium nervous depress. 615.786
Conjugate forms invariants 512.88
Conjugateæ botany 589.61
Conjugation Eng. gram. 425.18
Fr. " 445.18
Ger. " 435.18
Gk " 485.18
Lat. gram. 475.18
[3] other lang.
Conjunctions
etymology English 422.9
Greek 482.9
Latin 472.9
[3] other lang.
solar system 523.23
syntax English 425.9
Greek 485.9
Latin 475.9
[3] other lang.
Conjunctiv
mood, etymology Greek 482.8
Latin 472.8
[3] other lang.
syntax English 425.8
French 445.8
Greek 485.8
Latin 475.8
[3] other lang.
Conjunctiva anatomy 611.8411
eye diseases 617.71
physiology 612.8411
Conjuring sorcery 133.4
Conkanee hemp agric. 633.562
Connaraceæ botany 583.31
[1]Connaught, Ire. history 941.7
Connecticut, U. S.
Arnold in Am. revol. 973.3377
[1] **history 974.6**
For military history see subdivisions of Special campains and Military history under 973.3, 973.7 and 973.89
Pequot war 973.22
travel 917.46
Tryon in Am. revol. 973.3351
Connections, volt. cell eng. 621.3526
Connectiv tissue anat. 611.76
diseases 616.77
histol. 611.0182
Conquest
international law 341.3
Norman Eng. hist. 942.02
of Greece by Rome 938.08
Mexico by Spain 972.02
territorial pol. sci. 320.1269
Conrad 1 Ger. history 943.022
2 " " 943.023
3 " " 943.024
4 " " 943.025
Consanguinity law 347.6
physiol. 612.607
Conscience, H. Dutch fic. 839.3355
Conscience ethics 171.6
freedom pol. science 323.442
Consciousness philosofy 126
Conscription mil. science 355.22
U. S. history 973.7414
Consecration 265.9
sermons 252.7
Conservation of
energy physics 531.6
fertilizers agric. 631.812
forces physics 531.6
moisture agric. 631.7
national resources 339
natural " 339
Conservatism 137
Conservatories architec. 728.98
music 780.7
plants 716.3
Consols Eng. finance 336.42
[3]Consonants language 421.3
physiology 612.7894
Conspiracies crim. law 343
Constables 352.2
Constance, council of
1414–8, Hussites 284.3
religious history 270.5

Constant de Rebecque 843.63
Constant
current analysis chem. 545.311
syst. arc light 621.3252
transformers 621.31432
potential syst. arc. light 621.3253
transformers 621.31431
speed motors 621.313245
voltage analysis chem. 545.312
Constantine the Great
Byzant. hist. 949.501
Constantinople
[1] history 949.61
Latin conquest 949.503
travels 914.961
Turkish conquest 949.504
Constantinopolitan creed 238.1
Constants earth 525.1
electricity 537.51
moon 523.31
sun 523.71
Constellation, ship U.S.hist. 973.45
Constellations astronomy 523.89
Constipation pathology 616.34
Constituencies suffrage 324.22
Constituents butter 637.222
cheese 637.322
Constitution
and bylaws lib. econ. 023.1
centennial U. S. hist. 973.85
day school observ. 371.365
English law 342.42
of matter metaphysics 117
physics 530.1
of '57 Mex. history 972.06
ship U. S. war of 1812 973.5251
captures by " 973.5257
United States history 973.4
law 342.73
Constitutional
act, Canada under 971.03
conventions 342
diseases 616.9
history 342
law 342
monarchy pol. sci. 321.7
Constraind attitude hyg. 613.65
Construction
aircraft aerostation 629.16
aviation 629.18
architectural 721
carpentry 694
library bildings 022.35
masonry 693
Construction
systems shipbilding 623.84
Consular
reports 382
systems intern. law 341.8
Consulate, 1st Fr. hist. 944.046
Consuls 327
Consulting librarian 023.4
Consumers leag 331.8
Consumption
butter 637.24
cheese 637.34
final pol. econ. 339
fuel steam engin'g 621.1823
compar. " " 621.1824
lung diseases 616.246
milk 637.14
productiv pol. econ. 331
Consumptiv assn cooperat. 334.5
Contagious diseases
domestic economy 648.6
pathology 616.91
public helth, general 614.4
special 614.5
Containers elec. engin'g 621.3521
prac. chem. 542.23
Contemplativ pers. religion 248
sisterhoods 271.96
theology 242
Contested
elections legislativ bodies 328.3358
suffrage 324.277
legislation 328.3744
Conti, Augusto Ital. essays 854.83
Contingent vote suffrage 324.224
Continence ethics 176.3
Continental
code elec. engin'g 621.382153
congress U. S. hist. 973.312
leg. bod. 328.73
heraldry 929.6
protestant sects 284
travels 914
Continents phys. geog. 551.41
Continuation schools 374.8
Continued fever, simple 616.926
Continuous
current machinery eng. 621.3132
systems transmission 621.319122
train telegrafy 621.38425
truss bridgebilding 624.33
[1]Contra Costa co. Cal. hist. 979.463
Contraband of war int. law 341.3
Contrabass tuba wind 788.48

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Contrabasso stringd 787.4
Contract
labor pol. econ. 331.54
prisons 365
Contractility
of bile ducts physiol. 612.3577
hart " **612.171**
spleen " 612.413
Contraction
muscular histology 611.01864
of muscles physiology 612.741
Contractions shorthand 653.1
Contractors liability bldg 692.9
Contracts
bilding 692.4
ethics 174.7
law 347.4
marriage family law 347.6
teachers 371.142
wage scales pol. econ. 331.22
Contravariants algebra 512.88
Contreras, battle Mex.war 973.6238
Contributions
election suffrage 324.273
library rules 023.93
Control
devices electric stations 621.317
fertilizer frauds 631.818
over administration 351.9
systems elec. traction 621.3344
Controversial divinity 230
sermons 252.2
Contused wounds surgery 617.142
Contusions surgery 617.13
Conundrums amusem'ts 793
[5] Eng. lit. 828
Conus medullaris anat. 611.8216
Convection heat 536.2
Convent educa. of women 376.5
labor polit. econ. 331.53
Convention eccles. polity 262.4
French hist. 944.043
Conventional
forms decoration, painted 729.44
relief 729.54
Conventions polit. parties 329
see also special subjects
Convents 271
architecture 726.7
Conversation
art of 374.1
ethics 177.2
library staff rules 023.91
rooms lib. bildings 022.661
Conversation
self education 374.1
table 642.48
Conversion personal relig. 248
revivals 269
Converter
panels elec. eng. 621.31726
substations " " 621.31264
Converters elec. engin'g
alternating current 621.3135
direct " 621.31325
frequency, asynchronous 621.31367
phase " 621.31368
Conveyances law 347.2
Conveyancing realty 347.2
Conveyers engineering 621.867
fuel " 621.18378
tree agricult. 631.3366
Conveying
machinery engin'g 621.86
hydraulic " 621.264
pupils central plan 379.175
Convict labor pol. econ. 331.51
Convicts criminal law 343
discharged reform 364
Conviviality social cust. 394.1
Convocation eccles. polity 262.4
Convolutions anatomy 611.8131
physiol. 612.825
Convolvulaceæ botany 583.78
Convulsions diseases 616.845
puerperal 618.75
Conway cabal Am. revol. 973.349
[1]Cook co. Ill. history 977.31
Cook books dom. econ. 641.5
Cookers kitchen equip. 643.33
Cookery
dietetics 613.2
domestic economy 641.5
esthetics of dom. econ. 641.01
of diff. materials " 641.6
processes " 641.7
Cooking banana 634.773
schools 641.07
Cooks domestic economy 647.25
[1]Cook's iland history 996.2
Coolies 326.2
Cooling towers steam eng. 621.19764
Cooper, A. A. Eng. essays 824.51
J. F. Am. fiction 813.24
[1]Cooper co. Mo. history 977.851
Union education 374.9
Cooperage manufactures 674

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Cooperation lib. econ. 021.64
lit. methods 029.1
polit. econ. 334
Cooperativ
bilding associations 334.1
cataloging lib. admin. 025.3
housekeeping 647.93
insurance 334.3
Coordinates
anal. geom. of space 516.34
geografic 525.4
modern analytic geom. 516.51
plane " " 516.14
spheric astronomy 522.7
Coordination physiology 612.82934
Coornhert, D. V. Dut. poetry 839.3126
[1]Coos co. N. H. history 974.21
Copaiba diuretics 615.761
[1]Copenhagen history 948.9
travel 914.89
Copepoda articulates 595.34
Copernican theory astron. 521
Copiers lib. economy 025.154
offis equipment 652
Coplas de Mingo Revulgo 867.2
Coppée, F. E. J. Fr. drama 842.88
" poetry 841.85
Copper
coins money 332.41
drugs 615.256
engraving 762
implements archeol. 571.34
inorganic chemistry 546.56
led accumulators 621.35556
manufacture 671
metallic poisons 615.929
metallurgy 669.3
mineralogy 549.2
mining prehist. archeol. 571.31
ores economic geology 553.43
roofing 695.4
toxicology 615.929
Copperas disinfectant 614.488
Coptic church sects 281.7
[4] **language 493.2**
[5] **literature 893.2**
Copts history 962
Copulation embryology 611.0132
physiology 612.613
zootechny 636.082453
Copy and proof lit. meth. 029.6
Copybooks elem. educat. 372.51
Copying processes writing 652
Copyists' occupation, hygiene 613.65
Copyright books lib. aid 021.842
international law 341.5
law 347.7
publishing 655 6
Coquetry ethics 177.6
Coquillart, G. Fr. poetry 841.23
Coracoacromial ligaments 611.72724
Coracobrachialis anat. 611.73722
Coracoclavicular joint " 611.72724
Coracoid process " 611.7173
Coral reefs geology 551.96
Corallines algae 589.3
Corals zoology 593.6
Cor-Anglais wind instr. 788.7
Cord machine physics 531.83
spinal anatomy 611.82
physiology 612.83
Cordage
fibers agriculture 633.5
manufacture 677
Cordials liquors 663.5
Cordilleras description 918
Cordon training 631.5466
Cords plant support 631.3451
training 631.5461
[1]Corea history 951.9
Cores, field elec. eng. 621.316
Coriander 635.75
Coriarieæ botany 583.298
Corinth, Miss. battle 973.7334
siege 973.7325
Corinthia ancient hist. 938.7
Corinthians 1 epistles 227.2
2 " 227.3
Corium anatomy 611.778
[1]Cork, Ireland history 941.95
travel 914.195
Corkborers chemistry 542.25
Corliss engin 621.1644
Corn cereals 633.15
clubs 630.717
duty on 337.5
foods zootechny 636.08615
harvesters 631.355
harvesting 631.555
laws 337.5
salad 635.57
shellers 631.3614
trade pol. econ. 338.1
vegetables 635.67
Cornaceæ botany 583.497
Cornea anatomy 611.8413
eye-diseases 617.71
physiology 612.8411

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Corneille, P: Fr. drama 842.41
T: " " 842.43
Cornelius Agrippa philos. 189.5
Cornell university 378.747
Cornet wind instrum. 788.3
Cornises archit. construc. 721.27
" design 729.31
[4]Cornish
Indian fowls 636.58814
language 491.67
pumps mine drainage 622.53
Corns dermatology 616.54
Cornstalks zootechny 636.086255
[1]Cornwall, England hist. 942.37
Cornwall sheep 636.3266
Cornwallis' surrender 973.3375
Corollifloræ botany 583.5
Corona of sun 523.75
Coronado discov. of Am. 973 16
Coronarieæ botany 584.3
Coronary
arteries anatomy 611.1322
physiology 612.1721
gastric artery anatomy 611.13643
nervs " 611.8393
valv " 611.12665
Coronation ceremonies 394.4
Coroners law 347.96
local gov't 352.9
Corpora albicantia anat. 611.8142
cavernosa " 611.645
quadrigemina " 611.8153
Corporal punishment 371.55
Corporate industries 338.7
Corporation, city admin. 352.003
Corporations 360
business 380
charitable 361
law of 347.1
mining 622
municipal 352
railroad 385
Corps
army U. S. civ. war 973.7416
judicial univ. admin. 378.113
Corpulence disease 616.39
physiology 612.3977
Corpus
callosum anatomy 611.8139
physiology 612.8261
luteum anatomy 611.652
embryology 611.01317
spongiosum anatomy 611.646
Corpus
striatum anatomy 611.8132
physiology 612.8261
Corpuscles chemistry 541.2
red physiol. 612.111
white " 612.112
Corpuscular theory of light 535.1
matter 530.1
Correction, houses of 364
arch. 725.63
Corrections
astronomy 522.9
by readers lib. economy 024.81
gravity experiments 526.73
of orbit astronomy 521.35
perspectiv 515.66
Correlation
method of teaching 371.363
of figures mod. geom. 513.57
forces physics 531.6
Correspondence
autobiografy 920
commercial 658
courses agriculture 630.714
[5] **English literature 826**
letter writing 808.6
library administration 025.15
logic 169
methods of teaching 374.4
modern geometry 513.57
natural theology 219
schools self education 374.4
shorthand 653.042
Swedenborgian 289.4
[1]Corrèze, France history 944.67
Corridors lib. bildings 022.681
Corrosion chemistry 541.39
eng. materials 620.1122
steam boilers 621.1965
Corrosiv
sublimate antiseptics 615.778
drugs 615.258
pestifuges 648.7
toxicology 615.927
Corrugator supercilii anat. 611.7325
Corruption
electoral suffrage 324.27
official ethics 172.2
Corsets hygiene 613.484
Corsica, Italy, anc. hist. 937.9
[1] mod. " 945.9
Corsican pony 636.165
Cortereal, G. discov. of Am. 973.16
M. " " " 973.16

Cortés, H. discov. of Am. 973.16
Mex. history 972.02
Cortex, cerebral anatomy 611.8131
physiol. 612.825
Corticine dom. economy 645.1
lib. " 022.961
Corti's fibers anatomy 611.8522
physiology 612.8584
ganglion anatomy 611.89181
organ " 611.8522
physiology 612.8584
[1]Cortland co. N. Y. hist. 974.772
Corundum chemic tech. 666.8
econ. geol. 553.65
mineralogy 549.5
Corvée pol. econ. 331.57
Coryza diseases 616.205
[1]Coshocton co. O. history 977.165
Cosmetics adulterations 614.354
toilet 646.7
Cosmic dust astronomy 523.16
philosofy metaphys. 113
time chronology 529.77
Cosmogony metaphysics 113
natural theol. 213
Cosmografy phys. geog. 551.4
Cosmology metaphysics 113
natural theol. 213
Cossa, Pietro Italian drama 852.82
Cossacks Russian hist. 947
Cost bilding 692.5
keeping accounts 657
of animals zootechny 636.08112
college education 378.368
farm agriculture 631.112
fertilizers " 631.817
food dom. econ. 641.31
political economy 338
Costa, I: da Dutch poetry 839.3155
Paolo Ital. essays 854.71
S: Dutch drama 839.3233
[1]Costa Rica hist. 972.86
Costal cartilages anatomy 611.7125
Costanzo, A. di Ital. poetry 851.41
Coster hist. of printing 655.112
Costivness diseases 616.34
Costmary 635.74
Costocervical artery anat. 611.1346
Costochondral joints " 611.723
Costoclavicular ligam. " 611.7271
Costosternal joints " 611.723
Costovertebral " " 611.722
Costume academic 378.29
ecclesiastic 247.7
Costume fashion mag. 646.05
hygiene 613.48
military 355.14
Costumes 391
[1]Côte d' Or, France hist. 944.42
Co-tenancy law 347.2
Cotentin cattle 636.2462
sheep 636.3447
[1]Côtes du Nord, Fr. hist. 944.12
Cotswold sheep 636.3211
Cottage cheese 637.356
Cottages, laborers archit. 728.68
mountain " 728.7
seaside " 728.7
Cotters fastenings 621.883
Cottoid fishes zoology 597.5
Cotton
agriculture 633.51
clothing hygiene 613.481
domestic economy 646.11
dyeing chem. technol. 667.3
expos. internat. U.S.hist. 973.84
manufactures 677
mills architecture 725.41
picking agriculture 631.5565
trade pol. econ. 338.1
worm pests 632.78
Cottonseed
meal fertilizers 631.847
Cotyloid cavity anatomy 611.7181
Couches dom. economy 645.42
Coucou poultry 636.547
de Malines poultry 636.548
Coughing physiology 612.219
Coughs and colds pathol. 616.205
Coulometers elec. eng. 621.3744
Council
[1] Bluffs, Ia. history 977.7711
ecclesiastic polity 262.4
ecumenic eccles. pol. 262.5
relig. hist. 270.2
general Fr. loc. gov't 352.0442
history, religious 270
municipal Fr. loc. gov't 352.0448
of state French admin. 354.4495
Ger. " 354.4308
privy Eng. " 354.4204
Counsel christian relig. 241
Counterfiting law 343
pol. econ. 332.9
Counterirritation therapeut. 615.771
Countermines mil. eng. 623.36
Counterpoint music 781.4
Counterpoise bridges 624.82

Counters library econ. 022.913
telefone stations 621.38798
Countervallation mil. eng. 623.22
Country
homes architecture 728.6
of poor " 728.12
inns " 728.53
laboring class in special 331.819
life 630.1
mortality pub. helth 614.145
schools 379.173
seats architecture 728.8
vs city colleges 378.153
County
agent agriculture 630.717
government admin. 352
County
government Eng. admin. 352.0421
histories British 942
U. S. 974–979
libraries 027.42
Couplings
power transmission 621.825
railroad engineering 625.25
Coups d'état pol. sci. 321.094
Courage ethics 179.6
Courier de Méré, P.L. Fr.lit. 844.63
[1]Courland, Russia hist. 947.4
Course
length of college 378.241
school 371.253
Courses
agricultural, correspond. 630.714
extension 630.717
in nonagric. sch. 630.716
short 630.713
belt walls 721.25
curriculum 375
of reading lib. econ. 028.3
Court
baron English law 347.99
etiquet customs 395
fools " 394.2
houses architecture 725.15
of arbitration 341.1
claims U. S. law 347.99
star chamber Eng. law 347.99
reporting shorthand 653.046
supreme U. S. law 347.99
university administration 378.113
Courtes-pattes poultry 636.544
Courtesy ethics 177.1
lib. staff rules 023.96
Courts
administration 351.94
authority of 340
ecclesiastical 262.9
history of 347.99
juvenil 364
martial 344
of honor mil. science 355.13
inquiry " " 355.13
organization 347.97
Courtship ethics 177.6
Cousin eclecticism 148
French philos. 194.7
Cousins, marriage of law 347.6
Coussade poultry 636.544
Coutumes French law 349.442
Covariants higher algebra 512.88
Covenant meetings pub.wor. 264.8
Scotch creeds 238.5
Covenanters relig. hist. 274.1
Scot. " 941.06
Covenants for titles law 347.2
religious creeds 238
Coventry plays Eng. drama 822.12
Cover crop 631.584
Covering
protection against frost 632.113
steam pipe 621.1856
Coverture law 347.9
Covetousness ethics 179.8
Cowardis " 179.6
Cowley, A. Eng. poetry 821.46
Cowpeas 633.33
Cowpens, S. C. Am. revol. 973.3372
Cowper, W: Eng. poetry 821.65
Cowper's glands anat. 611.627
Cowpox diseases 616.913
Cows
choice of dairy 637.121
diseases of 619.2
domestic animals 636.2
zoology 599.7
Coxae, os anatomy 611.7181
Cozzens, F: S. Am. humor 817.36
Crab apple 634.12
Crabs fishery 639.5
zoology 595.36
Cradle agriculture 631.3513
sithe agriculture 631.3513
songs folklore 398.8
music 784.4
Cramming examinations 371.27
zootechny 636.08456
Cramp diseases 616.87

Cranberry small fruits 634.76
bush " 634.745
Cranes and elevators eng. 621.87
hydraulic machinery 621.263
Cranial
bones anatomy 611.715
ganglions " 611.891
nervs " 611.831
physiology 612.819
sutures anatomy 611.7141
Craniidæ zoology 594.8
Craniology nat. hist. of man 573.7
Cranium anatomy 611.715
base of " 611.7143
Crannoges prehist. dwel. 571.83
Craonnaise swine 636.443
Crashaw, R: Eng. poetry 821.42
[3]Crasis " lang. 421.2
Crassulaceæ botany 583.39
Craters seismology 551.21
Crates Greek philosofers 183.4
Crawfish fishery 639.5
zoology 595.37
[1]Crawford co. Ill. history 977.375
travels 917.7375
[1] Ind. history 977.228
[1] Ia. " 977.745
[1] Mich. " 977.477
[1] Mo. " 977.862
[1] O. " 977.127
[1] Pa. " 974.897
[1] Wis. " 977.574
Crayfish fishery 639.5
zoology 595.37
Crayon drawing 741
Cream adulterations 614.324
dairy 637.148
of tartar adulterations 614.315
Creameries agriculture 637.231
Creamometer 637.1276
Creation evolution 575
metaphysics 113
natural theol. 213
Creativ power ment. facul. 155
Creator doctrinal theol. 231.1
Crébillon, C.P.J.de, fils Fr.fic. 843.55
P.J.de Fr.drama 842.52
Crèches institutions 362.7
Credentials
academic 371.291
higher 378.2
electoral 324.243
legislativ bodies 328.36
Credibility of Scriptures 220.1
Credit
and bonds insurance 368.8
institutes loan instit. 332.31
institutions state control 351.825
mobilier railroads 385
U. S. history 973.82
political economy 332.7
Credo sacred music 783.22
Credulity 137
Creeds Anglican ritual 264.037
dogmatic theol. 238
public worship 264.5
Creek indians removal 973.55
Cremaster muscle anatomy 611.7366
Cremasteric fascia " 611.639
Cremation
of the ded customs 393.2
public helth 614.62
garbage san. engin'g 628.44
Crematories pub. helth 614.62
san. engin'g 628.44
Creole
French dialect 447.9
Creosoting bldg materials 691.1
Cress 635.561
Crested turkey 636.59214
Cresting roofs 721.56
Crests heraldry 929.8
Cretaceous era geology 551.77
fossils paleont. 560
Crete ancient history 939.18
[1] modern " 949.98
Cretinism diseases 616.997
[1]Creuse, France history 944.68
Creutz, G. F. Swed. poetry 839.7145
Crevasses glaciers 551.31
Crèvecoeur fowls 636.541
Crewel work art needlewk 746
Crib
open architec. foundations 721.172
Cribbage games 795
Cribbing student life 371.81
Cricket amusements 797
Cries, battle war customs 399
street folklore 398.5
Crime and illiteracy educ. 379.21
law 343
suffrage disqualificat'n 324.173
[1]Crimea history 947.7
Crimean war English hist. 942.08
Russian " 947.07
Crimes and punishments 343.2
Criminal
classes reform. assoc. 364

Criminal
courts administration 351.945
law **343**
international 341.4
trials criminal law 343.1
Criminals
education of 371.93
juvenil childstudy 136.763
law 343
lives **923.41**
Criminology 364
Crinoidea zoology 593.91
Crippled education 371.916
Crises, commercial econ. 332
Criterion ethics 171
Critical philosofy 142
Criticism art 701
biblical 220.7
dramatic 792
literary 801
musical 780.1
rhetoric 808
Crittenden compromise **973.712**
[1]Croatia history 943.94
[4]Croatian language **491.83**
[5] literature **891.83**
swine 636.473
Crocheting dom. econ. 646.27
fancywork 746
Crockery pottery 738
Crocodiles 598.14
Crofton system prisons 365
Croisade contre les Albigeois
Provençal lit. 849.122
[1]Cromarty. Scot. history 941.15
Cromlechs prehis. arch. 571.94
Cromwell, O. Eng. hist. 942.064
R: " " 942.065
Crookes tubes elec. light. 621.3277
Crookneck squash 635.621
Crop farming **633**
farms 631.141
insurance 368.5
rotation 631.582
Crops agriculture **633**
tools for cleaning **631.362**
Croquet 796
Cross (G: Eliot) Eng. fic. 823.88
Cross arms elec. lines 621.319224
Christian symbol 247.9
Cross, legends concerning 398.2
system shorthand 653.36
Crossbreeding zootechny 636.08243
Crossing plant breeding 631.523
Crossings, railway eng. 625.16
Crossopterygii 597.4
Croton aqueduct engin'g 628.14
oil toxicology 615.93
Croup diseases 616.201
Crowbar 631.3116
Crown
appointments to legis. bod. 328.3351
grafting 631.54142
Crown Point, N. Y.
battle Amer. col. hist 973.26
revol. 973.3314
Crowne, J: Eng. drama 822.43
Crowning road engin'g 625.74
Crozier sacred furniture 247.6
Crucial ligaments anat. 611.72831
Crucibles metallurgy 669
prac. chem. 542.232
Cruciferæ botany 583.123
Crucifix sacred furniture 247.9
Cruelty
ethics **179.2**
Great war mil. hist. 940.405
international law 341.3
war customs 399
Cruisers naval eng. 623.825
Cruising boating 797
Crura cerebri anatomy **611.8154**
Crural muscle anat. 611.73822
nerv, anterior " 611.8355
of Winslow " 611.83561
Crus cerebri " 611.8154
Crusade, children's 940.185
Crusades Europ. history **940.18**
relig. " 270.4
Crusenstolpe, M. J. Swed. fic. 839.7362
Crushers agriculture 631.3143
chem. apparatus 542.22
hydraulic mach. **621.26**
Crushing mining danger 622.83
ore preparation 622.73
Crust of the earth geol. 551.13
Crusta anatomy 611.81542
Crustacea paleontology **565.3**
zoology **595.3**
Crustaceans fisheries 639.5
Cruz, R. de la Span. drama 862.43
San J. de la Span. misc. 868.34
Crying physiology 612.219
Cryoscopy
of blood physiol. 612.11817
organic fluids " 612.0144622
solutions chem. 541.341
urin physiol. 612.461179

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Cryptogamia **586**
Cryptografic art relig. art 246.5
Cryptografy secret writ. 652
Crystallin
aggregations crystallog. 548.2
lens anatomy 611.8441
physiology 612.8441
limestone 552.46
state chemistry 541.7
Crystallization
practical chemistry 542.65
strength of materials 620.1125
Crystallizers prac. chem. 542.65
Crystallografy **548**
Crystalloids 541.345
Ctenophora zoology 593.8
Cuba
bast fibers 633.59
filibuster exped. U.S.hist. **973.64**
[1] history 972.91
Span. misrule U. S. hist. 973.891
travels 917.291
Cubature calculus 517.33
Cubics analytic geometry 516.59
modern " 513.59
Cubital nerv anatomy 611.8336
Cuboid bone " 611.71875
Cuboidcuneiform joints " 611.72855
Cucumbers 635.63
Cucurbitaceæ botany 583.461
Cuffs toilet 646.48
Culdees religious history 274.1
Cultivated plants horticul. 716
Cultivating tillage 631.516
Cultivation
land geog. distribution **631.09**
rent for 333.5
Cultivators farm machinery **631.316**
plants agriculture **631.54**
Cults, religious cookery 641.567
Culture 301
Culture and religion 261.6
self education **374**
vocal 784.9
Culverins ordnance 623.4211
Culverts
railway engin'g 625.13
Cumberland, R: Eng. dram. 822.65
[1]Cumberland, Md. history 975.295
[1] co. Eng. " 942.85
[1] Ill. " 977.373
travels 917.7373
[1] Me.history 974.19
[1] N. J. " 974.994
[1] Cumberland, N. S. hist. 971.611
[1] Pa. " 974.843
army of U. S. hist. 973.7416
presbyterians sects 285.3
sheep 636.3253
swine 636.4243
Cumulativ
vote suffrage 324.223
Cuneatus, fasciculus anat. 611.8182
Cuneiform
ankle bones anatomy 611.71878
inscriptions 492.1917
[4] **language** **492.19**
wrist bones anatomy 611.71773
Cuneus anatomy 611.81317
Cunningham cattle 636.2253
Cupboards dom. economy 643.48
Cupel prac. chemistry 542.42
Cupola furnace " " 542.42
Cupping therapeutics 615.811
Cups bronze age 571.37
stone " 571.27
Cupuliferæ botany 583.976
Curare poisons physiol. 612.8171
toxicol. 615.97
Curativ electricity therap. 615.84
gymnastics " 615.82
Curbs road engin'g 625.888
Curd mils cheesemaking 637.3322
Curdling cheesemaking 637.3331
Cures, miraculous miracles 231.7
therapeutics **615.85**
Curia regis 347.99
Curing
food preserv. chem. tech. 664.8
dom. econ. 641.4
Curiosa books 099
library economy 020.88
Curiosity 137
Curling amusements 796
Curly bristled swine **636.471**
Currants **634.721**
Currency banking 332.5
Current collecting devices 621.3344
suspension wheels 621.234
Currents
atmospheric phys. geog. 551.51
electric physics 537.6
oceanic phys. geog. 551.47
Curriculum **375**
Cursores birds 598.5
Curtains dom. economy 645.3
fortifications 623.116

Curtesy ethics 177.1
lib. econ. 023.96
Curtius Rufus, Quintus 878.8
Curv tracing calculus 517.24
Curvature
geology 551.82
of spine diseases 616.73
stomach, greater anat. 611.335
lesser " 611.336
Curvd surfaces anal. geom. 516.4
theory of calculus 517.26
Curvembryeæ botany 583.91
Curvilinear motion physics 531.3
Curvs
analytic geometry 516.2
geometry 513.2
of double curvature
modern anal. geom. 516.58
geom. 513.58
plane, theory of calculus 517.24
railway engineering 625.11
roadmaking 625.72
Cushions dom. economy 645.47
Custard apple 634.415
family agric. 634.41
Custom houses architect. 725.14
Customs
and duties tariff 337
manners 390
bad social hygiene 613.87
of primitiv man 571
war 399
student life 371.89
taxation 336.26
Cutaneous
absorption physiology 612.384
diseases pathology 616.5
glands physiology 612.792
nerv of neck anatomy 611.83333
thigh " 611.83544
respiration physiology 612.793
secretion " 612.792
sensibility " 612.794
Cutaneus surae lateralis 611.83582
Cuticle anatomy 611.771
Cutis vera " 611.778
Cutlery manufacture 672
Cuts practical printing 655.32
railway engineering 625.12
Cutter, stalk 631.3166
Cutters, ensilage 631.363
weed 631.3155
Cutting benches 631.335
Cutting **machinery 621.93**
of stone masonry 693.12
Cuttings 631.535
Cuttle fish 594.5
Cutworms agric. pests 632.78
[1]Cuyahoga co. O. history 977.131
Cyane, capture of U. S. hist. 973.5257
Cyanids chem. tech. 661.7
narcot. poisons 615.963
Cyanogen organ. chem. 547.1
Cycadaceæ botany 585.9
Cyclades ancient history 939.15
[1] modern " 949.95
Cyclanthaceæ botany 584.62
Cycles, motor engin'g 629.2
Cycling 796
Cycloidal curvs anal.geom. 516.26
Cyclones meteorology 551.55
Cyclopean remains Gk arch. 722.8
Cyclopedias, general 030
[2] special, see subject
Cyclops zoology 595.31
Cyclostomi " 597.2
Cylinder
axis histology 611.01883
bridge engineering 624.4
Cylinders
foundations architec. 721.172
solid geometry 513.43
graduated prac. chem. 542.35
perspectiv 515.65
steam locomotiv 621.1341
strength of materials 620.11283
Cylindric
perspectiv descr. geom. 515.62
projections " " 515.57
vaults architecture 721.43
Cymbals mus. instrum. 789.2
Cymric group of languages 491.65
[4] **language 491.66**
[5] **literature 891.66**
Cynewulf Ang. Sax. poet. 829.4
Cynic philosofy 183.4
Cynicism 137
Cyperaceæ botany 584.84
Cypher writing 652
Cyphomandra 634.7761
Cypriote architecture 722.3
Cyprus ancient history 939.37
[1] modern " 956.4
Cyrano de Bergerac, S. 843.46
Cyrenaic philosofy 183.5
Cyrenaica ancient history 939.75

Cystic
  artery anatomy 611.13641
  duct " 611.366
  nervs " 611.8393
  vein " 611.1495
Cysts diseases 616.993
Cytinaceæ botany 583.923
Cytisin organ. chem. 547.25
[1]Czechoslovakia history 943.7

D hoe 631.3152
Da caccia wind instrum. 788.7
Dacia ancient history 939.82
Dacites lithology 552.26
[1]Dade co. Mo. history 977.8745
Daguerreotype 772
Dahlstjerna, G.E. 839.7135
[1]Dahna, Arabia history 953.7
[1]Dahomey, Africa " 966.8
Dairies architecture 728.96
Dairy
  bildings 637.131
  cattle dairying 637.121
    Belgian 636.245
    Dutch 636.235
    English 636.224
    French 636.244
    German 636.23
    Irish 636.225
    Scotch 636.225
  farming 637
  farms 637.113
  products adulteration 614.32
    chem. anal. 543.2
Dais architec. accessories 729.9
[1]Dakota, U. S. history 978.3
    travel 917.83
Dalin, Olof von 839.7142
[1]Dallas co. Ia. history 977.757
[1] Mo. " 977.881
[1]Dalmatia, Ger. history 943.69
    travel 914.369
Daltonism eye diseases 617.75
    physiology 612.8455
Damascus anc. history 939.42
[1] modern " 956.9
    travel 915.69
Damnation doct. theol. 237.6
D'amore wind instrum. 788.7
Dampers steam engin'g 621.18382
Dams mill engineering 621.29
    mining " 622.56
    river " 627.8
Dana, R:H: Am. poetry 811.27
Dance form piano music 786.45
    music modern " 786.46
    of deth emblems 246.5
Dances, war customs 399
Dancing amusements 793
    customs 394.3
    ethics 175.3
Dandelion 635.46
Dandy fever 616.921
[1]Dane co. Wis. history 977.583

Danes English history 942.01
in Eng. and Normandy 948.02
Dangerous classes law 343
Dangers
mining engineering 622.8
to lib. bildings 022.29
life protection agst 614.8
workmen polit. econ. 331.82
Dangleberry 634.731
Daniel Bible 224.5
Daniel, S: Eng. poetry 821.33
Danish
architec. Romanesque 723.48
cattle 636.2356
England Eng. hist. 942.01
iland swine 636.434
merinos 636.3678
Danish
[4] language 439.8
[5] literature 839.8
Dante Alighieri Ital. poet 851.15
[1]Dantzig history 943.12
travel 914.312
Danube river travels 914.96
[1]Danubian prov. history 949.6
travels 914.96
[1]Danville, Ill. history 977.365
Daphnales botany 583.93
Darbyites sects 289.9
Darc, Jeanne Fr. history 944.026
[1]Darfur, Egypt history 962.7
Darien
expedition colonies 325.86
emigrants 325.241
foren trade 382
[1] isthmus history 986
ship canal engineering 626.9
Dark ages Europ. hist. 940.1
room lib. bildings 022.658
[1]Darke co. O. history 977.147
Darling, Ft, Va. U.S. hist. 973.7365
Darning dom. econ. 646.24
Dartmoor
pony 636.1625
prison U. S. war 1812 973.5271
sheep 636.3262
Dartos anatomy 611.6384
Darwinism biology 575
physiology 612.609
Dass, Peder Dan. poetry 839.8135
Date
of session legislativ bodies 328.352
palm fruit culture 634.62
Dates chronology 902
Dati, Carlo Ital. essays 854.54
Datisceæ botany 583.469
Dativ case syntax Greek 485.5
Latin 475.5
[3] other lang.
Daudet, Alphonse Fr. fic. 843.88
Daughters
1776–1812, soc. of U. S. 369.142
colonial, of 17th century 369.128
of the Amer. revolution 369.135
Cincinnati, soc. 369.132
confederacy 369.175
revolution 369.136
[1]Dauphin co. Pa. history 974.818
[1]Dauphiny, France hist. 944.96
travel 914.496
Daurat, Jean Fr. poetry 841.31
Davanzati, B. Ital. essays 854.44
Davenant, W: Eng. dram. 822.41
[1]Davenport, Ia. history 977.7691
Davies, J: Eng. poetry 821.35
[1]Daviess co. Ind. history 977.238
[1] Mo. " 977.818
Davis, John discov. of Am. 973.17
[1]Davis co. Ia history 977.797
[1]Dawson, Yukon " 971.21
Day
nurseries 362.7
of judgment doc. theol. 236.9
schools intermed. educ. 373.2
sidereal and solar 529.1
time of hygiene 613.13
Days
library rules for readers 024.4
market dom. econ. 641.4
of the year chronology 529.2
week, names 529.2
recipes for special 641.566
[1]Dayton, O history 977.173
Deacon eccles. polity 262.15
Deaconess " " 262.15
religious orders 271.99
Dead sea travel 915.69
see also Ded
Deaf, *see* Def
[1]Dearborn co. Ind. hist. 977.211
Death, *see* Deth
Debates parliamentary 328
rhetoric 808.5
Debating soc. self-culture 374.24
Debility diseases 616.986
Debt, debtor, debts, *see* Det, dettor, dets
Decalog Bible 222.16

Decantation prac. chem. 542.66
Decapitation physiology 612.8227
punishments 343.2
Decapods zoology 595.38
[1]Decatur, Ill. history 977.358
travels 917.7358
[1] co. Ind history 977.216
[1] Ia. " 977.7875
Decay of rocks lithol. 552.7
Deccan hemp fibers 633.563
Decidua pregnancy 618.35
Decimal
system arithmetic 511.1
weights and mesures 389
Decipium inorgan. chem. 546.692
Decision of character eth. 170
Decisions of juries math. 519.3
Decks
shipbilding 623.84
Declamation rhetoric 808.5
Declaration
of independence U. S. 973.313
Savoy creeds 238.5
war internat. law 341.3
Declarations law 347.92
Declension of nouns Eng. 425.15
[3] other lang.
Declination, variations of 521.27
Decline, period of physiol. 612.67
Decoction prac. chem. 542.61
Decomposition, chem. of 541.39
Decoration
architectural **729**
day U. S. history 973.76
schools 371.365
design **740**
domestic economy **645**
in relief architecture **729.5**
interior 747
library bildings 022.34
roof architecture 721.56
school bildings 371.635
Decorations
heraldry 929.7
presentations Great war 940.464
table dom. econ. 642.8
Decorativ art **740**
Decorum ethics 177.1
libraries 024.52
Decrees ecclesias. polity 262.6
Decretals " " 262.6
Rom. cath. church 282
Ded
animals air pollution 614.763
Ded
disposal of the pub.helth 614.6
list of Great war 940.467
U. S. civ. war 973.767
ministry of sacraments 265.8
sea description 915.69
transportation of 614.63
treatment of the **393**
Dedication church ordin. 265.9
sermons 252.7
Deduction by Bessel geod. 526.47
Puissant " 526.48
mental faculties 153.6
Deductions
wage pol. econ. 331.1
Deductiv logic 162
Deeds law 347.2
Deep
boring mining eng. 622.24
sea dredging scien. voy. 508.3
life botany 581.92
zoology 591.92
sounding scien. voy. 508.3
soil culture 631.586
veins of upper extrem. 611.14541
Deer domestic animals 636.294
zoology 599.7
stalking sports 799
Def and dumb
asylums architecture 725.54
child study 136.7612
education of 371.912
institutions 362.4
Defacement
of books lib. rules 024.81
laws 021.89
Defamation law 347.5
Defecation physiology 612.365
Defectivs
education **371.9**
psychology **136.76**
Defects of body
congenital hygiene 613.91
surgery 617.3
teratology 611.012
Defense
means of comp. physiol. 612.016
of religion apologetics **239**
Defenses fortifications **623.1**
Defensiv operations mil. **623.3**
Deferential artery anat. 611.13772
[1]Defiance co. O. history 977.114
Defilading fortifications 623.114

Definit integrals calculus 517.32
Definitions library 020.14
of orbits astr. 521.31
Deflections of beams, etc. 624.2
Deflegmators prac. chem. 542.48
Defness diseases 617.8
tone physiol. 612.85874
De Foe, D. Eng. fiction 823.51
Deformation engin'g 620.1123
Deformd poultry 636.5882
Deformities anatomy 611.012
surgery 617.3
Degeneration
evolution 575.7
muscular 612.7465
of nervs physiology 612.81851
optic nerv " 612.84378
spinal cord " 612.835
toxic, of nerv cells " 612.82256
Deglutition
digestion 612.312
effect of facial nerv on 612.81975
larynx in 612.785
Degradation mil. science 355.114
Degrading school organiza. 371.28
Degrees, academic 378.2
medical pub. helth 614.21
Deism natural theology 211
Deists apologetics 239.5
Deity doctrinal theology 231
[1]Dekalb co. Ill. history 977.328
[1] Ind. " 977.277
[1] Mo. " 977.815
Deken, Agatha Dutch fic. 839.3342
Delaine sheep 636.3682
Delany multiplex telegraf 621.38236
telepost telegrafy 621.38247
Delavigne, J. F.C. Fr. dram. 842.72
poet. 841.72
[1]Delaware, U. S. history 975.1
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
[1]Delaware co. Ind. hist. 977.265
[1] Ia. " 977.7385
[1] N. Y. " 974.736
[1] O. " 977.1535
[1] Pa. " 974.814
forts on Am. revol. 973.3337
[1]Delhi history 954.5
travels 915.45
Delille, J. French poetry 841.54
Delineation
of child in art childstudy 136.757
literature 136.758
women in art 396.7
literature 396.8
Delinquencies lib. loans 024.63
Delinquents
education 371.93
institutions 364
psychology 136.763
Delirium tremens pathol. 616.861
Delisle's method astron. 523.93
Deliveries lib. econ. 021.61
Delivery stations lib. bldgs 022.16
[1]Del Norte co. Cal. hist. 979.411
Delta connections elec. 621.3191332
[1] co. Mich. history 977.494
Deltas physical geografy 551.48
Deltoid muscle anatomy 611.73711
Deluge Genesis 222.11
geologic agents 551.92
Delusions 133
Demagogy politics 329
Demand and supply prices 338.5
wages 331.2
Dementia 132.1
[1]Demerara history 988
travels 918.8
Demisang horse 636.144
Democracy form of state 321.4
social 335.5
Democratic party 329.3
Democritus Gk philosofers 182.7
Demografy statistics 311
Demolition devices mil. 623.27
Demonetization 332.47
Demoniac possession theol. 235
Demonology dogmatics 235
witchcraft 133.4
Demosthenes Gk oratory 885.6
Demulcents therapeutics 615.735
Demurrage transportation 656
[1]Denbigh, Wales history 942.93
Dendrites histology 611.018837
Dendrology botany 582
Dengue diseases 616.921
Denials, special apologet. 239.9
Denina, Carlo Ital. essays 854.62
Denmark **administration 354.489**
antiquities 913.489
architecture 720.9489
botany 581.9489
colleges 378.489
constitu. law 342.489

Denmark education 370.9489
finance 336.489
geology 554.89
[1] history 948.9
laws 349.489
maps 912.489
religious history 274.89
schools, public 379.489
statistics 314.89
travel 914.89
treaties 341.2489
zoology 591.9489
other topics see table 1
Dennis, J: Eng. drama 822.51
Denominations, Christian 280
Density
gravity 531.54
of blood physiology 612.121
earth astronomy 525.12
urin physiology 612.46112
[1]Dent co. Mo. history 977.886
Dental
inspection school hyg. 371.712
periosteum, diseases of 617.63
pulp, diseases of 617.61
Dentate nuclei anatomy 611.81713
Dentatum " 611.81713
Dentine diseases dentistry 617.62
Dentistry 617.6
Dentists, registration of 614.24
Denudation geology 551.3
Deodorants exter. thera. 615.777
Deodorization of sewage 628.32
Deodorizers contag. dis. 614.482
Deontology 170
Department
stores bus. methods 658
Departmental
commission Fr. loc. gov. 352.0443
Departments " " " 352.0441
lib. admin. 025
U. S. gov. 353.04
Dependent pension bill U. S. 973.85
states pol. sci. 321.025
Dependents child study 136.767
education 371.947
institutions 362.7
Dephlegmators prac. chem. 542.48
Depolarized cells elec. eng. 621.3536
Depolarizers " " 621.3524
Deposit
of duplicates lib. econ. 025.269
money by reader 024.14
Deposition geology 551.3
Depositions evidence 347.94
Deposits
thick, working of min. 622.35
Depravity natural theol. 216
pessimism 149.6
total theol. 233.2
Depressants
circulatory therapeutics 615.716
nervous " 615.786
Depressions
trade commerce 381
money 332
production 338
Depressor alae nasi anat. 611.7323
labii inferioris 611.7326
nerv physiol. 612.1787
Depth of sewers 628.218
De Quincey, T: Eng. essays 824.81
Derangement, mental 132
[1]Derby, England history 942.51
Derbyshire sheep 636.3261
Derivation
of words comp. philol. 412
[3] **Eng. language 422**
Dermal
respiration zoology 591.122
physiology 612.793
Dermatology anatomy 611.77
animals 591.49
pathology 616.5
physiology 612.79
Dermis anatomy 611.778
Dermoskeleton comp. anat. 591.49
descrip. " 591.79
Deroulède, P. Fr. poetry 841.86
Derricks engineering 621.872
Dervishes 297
Désaugiers, M. A.M. Fr. lit. 841.65
Descartes empiricism 144
Fr. philosofy 194.1
Descent genealogy 929
of man evolu. 575.8
rules of law 347.6
Deschamps, Emile Fr. poet. 841.73
Eustache " sat. 847.13
Desclot, B. Catalan misc. 849.9812
Description travel 910
stock farms 636.08131
Descriptiv
anatomy botany 581.7
man 611
zoology 591.7
astronomy 523
geometry 515

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Desertion from mil. servis 355.114
Deserts physical geografy 551.58
reclamation 631.617
Deshoulières, A. Fr. poet 841.46
Design
architectural 729
arguments from
apologetics 239
natural theology 211
arts of 740
elementary education 372.52
metaphysics 124
of library bildings 022.34
shipbilding 623.81
Designing decoration 745
Designs engineering 620.04
mosaic architec. 729.7
Desk fittings lib. econ. 022.99
Desks domestic econ. 645.44
library " 022.913
offis equipment 651
Desmidiaceæ algæ 589.61
[1]Des Moines city, Ia. hist. 977.7581
[1] co. " " 977.796
Desperriers, B. Fr. fiction 843.32
Desportes, P. poetry 841.38
Despotism form of state 321.6
Despots Italian history 945.05
Despourrins, C. Prov. poet. 849.142
Dessication prac. chem. 542.48
Destouches, P. N. Fr. dram. 842.53
Destruction
elemental agriculture 632.1
Destructors san. engin'g 628.44
Det
ethics 174.7
floating pol. econ. 336.32
local government 352.1
public 336.3
Detacht city houses archi. 728.3
vowels shorthand 653.01
Detection of fire prot. of life 614.842
Detectivs 352.2
Deterioration
fertilizers agric. 631.814
Determinants algebra 512.83
Determination
of earth's figure 526.1
orbits astron. 521.3
rock minerals 552.81
Determinations, astr. geod. 526.6
Determinativ mineralogy 549.1
Determinism doc. theol. 234.9
philosofy 159
Deth
after delivery obstetrics 618.79
and resurrection 236
biology 577.7
by electric shock physiol. 612.014425
dance of emblems 246.5
from cold physiology 612.592
heat " 612.591
nature of 612.013
of fetus pregnancy 618.33
penalty criminal law 343.2
physiology 612.67
rates public helth 614.12
theology 236.1
Deths public helth 614.12
registers of 929.3
registration, official 352.4
statistics 312
Detonators
projectil chem. tech. 662.4
mil. engin'g 623.45424
Detritus geology 552.51
[1]Detroit, Mich. history 977.434
surrender U.S. hist. 973.5231
Dets, state and national 336.4–.9
Dettmann shorthand 653.34
Dettor and creditor law 347.7
Deuteronomy Bible 222.15
[4]Deutsch, Platt language 439.4
[5] literature 839.4
[1]Deux Sèvres, Fr. history 944.62
Developing interest in lib. 021.7
method teach'g 371.34
Development
incomplete deformities 617.31
intellectual, and church 261.5
nutrition 591.135
of embryo, abnor. anat. 611.012
surg. 617.3
anatomy 611.013
physiology 612.64
zoology 591.33
germ-cells zoology 591.172
sperm-cells embryol. 611.01312
zoology 591.171
period of full physiol. 612.66
physiology 612.6
projections geodesy 526.83
theory apologetics 239.8
evolution 575.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Deviation of
compass magnetism 538.7
falling bodies astron. 525.37
Devices, safety, *see* Safety
special, perspectiv 515.68
Devil, personal theology 235
worship 290
Deville
gas apparatus chem. 542.72
gasometers chem. 542.75
Devils dogmatics 235
[1]Devon, England history 942.35
travel 914.235
cattle 636.226
longwool sheep 636.3217
Devonian age geology 551.74
fossils paleon. 560
Devotional
exercises pub. worship 264.1
sermons 252.4
theology 240
Dew meteorology 551.57
Dewberry 634.717
[1]Dewitt co. Ill. history 977.358
Dexter shorthorn cattle 636.2256
Dextrins physiology 612.39612
Dextrose chem. technol. 664.1
Diabase lithology 552.34
Diabetes diseases 616.63
experimental 612.35213
urin in physiol. 612.46621
Diabolism doctrin 235
Diabolo game of skill 794
Diacele anatomy 611.8148
Diafram " 611.26
physiology 612.2171
Diaframatic artery anat. 611.1354
glands " 611.4641
Diaframs elec. engin'g 621.3523
Diagnosis of pregnancy 618.22
pathology 616.07
Diagram of work physics 531.42
Dial switches elec. eng. 621.31733
telegrafs communica. 654.3
elec. eng. 621.38223
Dialectics logic 160
[3]Dialects Eng. language 427
literature
Dialing 529.78
Dialogs entertainments 793
Dials chronology 529.78
Dialysis practical chem. 542.64
qualitativ anal. 544.5
Diamagnetism magnetism 538.4
Diameter of earth 525.13
Diamonds econ. geology 553.8
mineralogy 549.2
Diapedesis physiology 612.1124
Diapensiaceæ botany 583.65
Diaphoretics therapeutics 615.743
Diaphragm, *see* Diafram
[1]Diarbekr, Asiat. Tur. hist. 956.6
Diaries biografy 920
Diarrhea, epidemic diseas. 616.934
pathology 616.34
public helth 614.517
Diarrheal diseases
pub. helth 614.513
Diarthrosis anatomy 611.7296
Diastase materia medica 615.35
Diastole physiology 612.171
Diatessaron harm. of gosp. 226.1
Diathermancy heat 536.35
Diatomaceous earth, petrog. 552.57
Diatoms 589.61
Diazo-bodies org. chem. 547.8
Dibber farm tools 631.3112
Dibble " 631.3112
Dice ethics 175.5
games 795
Dickens, C: Eng. fiction 823.83
[1]Dickinson co. Ia. history 977.712
[1] Mich. " 977.495
Dicotyledonae botany 583
Dictation machines 651
Dictatorship 321.6
[3]Dictionaries Eng. lang. 423
[5] of quotations Eng. lit. 828
[2] special, see subject
Dictionary catalogs
bibliografy 019
library admin. 025.3
Didactic poetry Am. lit. 811.05
Eng. " 821.05
theology 241
Didactics education 371
Diderot Fr. philosofers 194.5
Didymium metals 546.64
Dielectrics dynamic elec. 537.5
Diencefal anatomy 611.814
Diencephalon " 611.814
Dies electric engin'g 621.318
mech. " 621.984
Diesel motor gas engins 621.436
Diesinking 736
Diet circle Ger. loc. gov. 352.0433
hygiene 613.2
Dietaries hygiene 613.21

Dietetic diseases pathol. 616.39
Dietetics hygiene 613.2
Differences, finite calculus 517.6
of triangles trigo. 514.8
Differential
calculus 517.2
equations calculus 517.38
variations astron. 522.74
Differentiation degrees 378.243
evolution 575.2
Diffraction acoustics 534.2
optics 535.4
Diffuse affections of skin 616.51
Diffusion
of gases physics 533.1
physiology of absorption 612.383
practical chemistry 542.63
theoretic " 541.341
Diftheria diseases 616.931
pub. helth 614.512
Difthongs Eng. lang. 421.2
Digastric muscles anat. 611.7341
[1]Digby co. N. S. history 971.632
Digestion
aids to therapeutics 615.734
animals 591.132
effects of spleen phys. 612.4141
history of " 612.309
human physiology 612.3
influence of vagus phys. 612.819913
intestinal " 612.332
of milk " 612.6647
plants 581.132
practical chemistry 542.61
theories of physiology 612.301
tryptic " 612.342
Digestiv
secretion in animals 591.143
system anatomy 611.3
diseases of 616.3
drugs acting on 615.73
surg. operations 617.43
tract, absorp. in physiol. 612.386
sympathet. system 612.898
Digests
of cases, Amer. law 345.5
Eng. " 346.5
statutes, Amer. " 345.3
Eng. " 346.3
Digging tillage 631.511
plow 631.3126
tools 631.311
Digitalis cerebro-card. pois. 615.99
diuretics 615.761
Digitalis materia medica 615.32381
stimulants 615.711
Digits, extra deformities 617.36
Dignities heraldry 929.7
Dignity of
labor polit. econ. 331.013
Dikes engineering 627.4
geology 551.88
reclamation 631.64
Dil garden crops 635.74
Dilatation gases 533.2
obstet. oper. 618.84
Dilatores nasi anatomy 611.7323
Diligence ethics 179.9
Dilleniaceæ botany 583.112
Diluvial deposits geology 551.35
Dimension, fourth geom. 513.8
stone foundat. 721.1332
Dimensions of earth 525.13
lib. bkcases 022.442
sun 523.71
[3]Diminutivs Lat. etymol. 472.5
Dimorphism crystallog. 548.3
Dingley tariff act U.S.hist. 973.88
Dining
car cookery 641.576
domestic economy 642
room dom. econ. 643.4
furnish'g " " 645.66
Dinka sheep 636.386
Dinner parties dom. econ. 642.42
recipes " " 641.54
Dinners, family " " 642.1
public " " 642.45
Dinocerata paleontology 569.7
Dinosauria reptils 598.19
Diocesan schools educa. 377.4
Diocese ecclesiastic polity 262.3
Diodorus Greek philos. 183.6
Diogenes " " 183.4
Diophantin anal. algebra 512.23
Dioptrics optics 535.3
Diorite lithology 552.36
Dioscoreaceæ botany 584.27
Dip of rocks geology 551.85
Diphenyl group org. chem. 547.27
Diphtheria diseases 616.931
public helth 614.512
[3]Diphthongs Eng. lang. 421.2
Diplomacy 327
internat. law 341.7
Diplomas school records 371.291
Diplomatic history
Great war 1914–19 940.32

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Diplomatic history
United States civil war **973.72**
Mex. " 973.622
revolution **973.32**
Span. war 973.892
war of 1812 973.522
[3]Diplomatics Eng. lang. 421.7
paleografy 417
Diplopia physiology 612.8468
Dippers baptist sect 286.5
birds 598.8
Dipropargyl org. chem. 547.24
Dipsaceæ botany 583.541
Dipsomania
mental derangements 132.7
temperance **178**
Diptera insects 595.77
pests 632.77
Dipterocarpeæ botany 583.167
Direct
current arc light elec.eng. 621.32552
machin. " " **621.3132**
systems " " **621.319122**
trac.lines " " 621.33142
expansion refrigeration 621.5652
legislation polit. science **328.26**
mandate legis. restriction 328.349
primaries suffrage 324.237
probabilities mathem. 519.1
taxation polit. econ. **336.21**
vote election methods 328.3355
Direction
calculus of anal. geom. 516.8
sense of physiology 612.8861
Directions, method of, geod. 526.54
Directories **914–919**
legislativ, official 328.338
unofficial 328.339
newspaper 016.07
Directors library gov't **023.3**
Directory, 1795–99, Fr. hist. 944.045
Dirigible
aircraft aeronautics **629.154**
torpedoes naval engin'g 623.95
Dirt roads engineering 625.74
Disabilities, polit. suffrage **324.17**
Disability, inherited mental 613.92
Disaccharids physiology 612.39614
Disappearing mounts ordn. 623.4333
Disarmament arbitration 341.6
Disasters aeronautics 629.145
at sea adventures 910.4
navigation 656
Disc stresses steam turbins 621.16514

Discharge
from military servis 355.114
of pupils school gov't 371.56
sewage into sea 628.39
teachers 371.142
wastes into streams 628.541
water engin'g 627.1
Disciples of Christ sects 286.6
biog. 922.6
Disciplin
civil servis 351.4
ecclesiastic polity 262.9
education **371.5**
legislativ bodies 328.366
mental education 370.1
military milit. science 355.13
prison 365
shop pol. econ. 331.1
Disciplinary
offisers college & univ. 378.113
penalties school gov't **371.54**
personnel " " 371.57
power admin. 351.92
Discomycetes botany 589.233
Discophora zoology 593.77
Discount banking 332.8
Discounts lib. bookbuying 025.222
Discourses theology **252**
[2] see subject
Discoverers biografy 923.9
Discoveries geografy **910**
science, hist. 509
useful arts 608
Discovery
art of
day school observance 371.365
of America U.S.hist. **973.1**
Canada history 971.011
territorial pol. sci. 320.1261
Discriminants algebra 512.85
Discs steam turbins 621.16534
Discussion, freedom of 323.443
Disease
bile in physiology 612.35766
gastric juice in " 612.3265
germs medicin 616.01
hart in physiology 612.176
leucocytes in " 612.1126
myografy in " 612.74116
nitrogen metab. in " 612.461236
pulse in " 612.166
ration in " 612.3956
red corpuscles in " 612.1116
respiratory exch. in " 612.226

Disease
temperature in physiol. 612.556
uric acid in " 612.466256
urin in " 612.4662
vasomotors in physiology 612.186
Diseased meat poisons 615.94
Diseases
animals veter. med. 619
zoology 591.2
bacterial agriculture 632.3
zootechny 636.0896
classification of nosology 616.01
communicable to man
anim. hyg. 614.93
pub. helth 614.56
contagious " " 614.4
of dom. animals 614.91
special pub. helth 614.5
inherited hygiene 613.93
mental medicin 616.8
mind and body 132
mortality pub. helth 614.147
of butter dairy 637.26
children medicin 618.9
ear surgery 617.8
eye surgery 617.7
milk dairy 637.16
plants agriculture 632
botany 581.21
pregnancy 618.3
teeth dentistry 617.6
women pathology 618
pathology 616
puerperal obstetrics 618.7
Disfranchisement suffrage 324.17
Dishcloth gourd 635.627
Dishes
fine arts 738
tableware dom. econ. 642.7
Dishley cattle 636.2288
sheep 636.3212
Dishonesty ethics 174.7
Dishwashing machines 648.54
Disinfectants
contagious diseases 614.482
domestic economy 648.6
external therapeutics 615.777
laundry domestic econ. 648.6
Disinfection
contagious diseases 614.48
of sewage 628.32
the ded pub. helth 614.64
Disintegration geol. agents 551.9
Disk
cultivator 631.3165
harrow 631.3136
pile foundations architec. 721.153
plow 631.3128
rollers 631.3142
Dislocations geology 551.87
surgery 617.16
Disorders of vision eye dis. 617.75
Dispensaries institutions 362.1
pharmacy 615.4
Dispensations absolution 265.6
Dispensatories mater. med. 615.12
Dispersion optics 535.4
Displacement
of molecules physics 539.5
parts deformities 617.38
of water shipbilding 623.81
Display in printing 655.26
social ethics 177.4
Disposal of
sewage san. engin'g 628.3
the ded pub. helth 614.6
wastes san. engin'g 628.54
Disproportionate growth 617.37
Disputations religion 204
[2] see subject
Disraeli, B: Eng. fiction 823.86
Dissection anat. animal 591.7
human 611.07
ethics 179.4
laws 614.22
Dissenters Eng. relig. hist. 274.2
Dissipation ethics 178
Dissociation chem. affin. 541.39
theory of solution chem. 541.3411
Dissolution
legislativ bodies 328.356
Distance of earth from sun 525.15
moon 523.31
stars 523.81
Distances, mesurement 526.92
Distemper painting 698.2
Distild beverages adulterat. 614.345
chem.tech. 663.5
Distillation chemic tech. 668.7
prac. chem. 542.48
Distilleries architecture 725.42
Distilling air pollution 614.732
Distortions
and corrections geom. 515.66
congenital surgery 617.39
Distributing mach. printing 655.28

Distribution
architectural elevation 729.12
plan 729.22
methods of fertilizers 631.816
of animals 591.9
fertilizers agric 631.816
plants 581.9
time chronology 529.76
political economy 338
static electricity 537.22
tide astronomy 525.63
welth polit. economy 331
Distributiv cooperation 334.5
laws solar syst. 523.21
Distributors, fertilizer 631.333
District
court reports, U. S. 345.41
[1] of Columbia, U. S. hist. 975 3
Districts
election representation 328.3345
Ditching spade 631.3111
Dithyrambics Greek lyrics 884
Ditmarsh sheep 636.3314
Diuretics physiology 612.4641
therapeutics 615.761
Diurnal inequality of tides 525.63
Divers birds 598.4
Divination magic 133.3
Divine
attributes doct. theol. 231.4
healing 265.8
humanity christology 232.8
justis doct. theol. 231.8
law " " 231.7
Providence " " 231.5
natural " 214
right of kings pol. sci. 321.6
servis public worship 264
Diving bells pneumatics 533.86
submarine 627
Divining rod 622.12
Divinity theology 230
schools architect. 727.4
theology 207
Divorce ethics 173.1
law 347.6
public helth 614.18
Dobereiner gas apparatus 542.72
Dobruja history 949.8
Dochmii Greek prosody 486.3
Dock agriculture 635.45
bildings architect. 725.34
Docks harbor engin'g 627.3
shipbilding 623.83
Dockyards harbor engin'g 627.3
Doctors' lives 926.1
Doctrinal sermons 252.3
theology 230
Doctrins, relig. heresies 273
theology 230
Documents, public 328
legislativ distribution 328.347
special library material 025.1734
storage lib. economy 025.8
[1]Doddridge co. W. Va. hist. 975.456
[1]Dodge co. Wis. " 977.582
Dog
captor zootechny 636.081113
diseases of compar. med. 619.7
domestic animals 636.7
fighting ethics 175.6
machine gearing 621.837
protector zootechny 636.0835
tax polit. econ. 336.27
zoology 599.7
Dogma 230
Dogmas religious hist. 273
Dogmatic sermons 252.3
Dogmatics 230
Dolerite lithology 552.35
Dolichocephaly craniology 573.7
Dolichos 635.654
Dolls dom. economy 649.55
Dolmens prehist. arch. 571.94
Dolomite lithology 552.55
Domain, eminent law 347.2
state finance 336.1
Dome, boiler steam eng. 621.18452
locomotiv boiler 621.1336
Domes
construction architec. 721.46
design " 729.34
observatories astron. 522.12
roofs architec. 721.57
Domesday book Eng. fin. 336.42
Domestic
animals 636
infect. diseases of 614.91
architecture 728
ashes san. engin'g 628.44
duties ethics 173
economy 640
education 376.3
garbage sanitary eng. 628.44
mammals 599.7
medicin 616.02
relations law 347.6
polit. science 323

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Domestic
servis **647**
trade 381
use and waste of water 628.17
worship family prayer 249
Domestication, effect on animals and plants 575.2
Domicil
legal capacity law 347.1
suffrage qualifications 324.16
Dominican fowls 636.5811
Dominicans mon. orders 271.2
Dominion of Canada history 971.05
Dominoes games 795
Dompelaers baptist sect 286.1
Domschulen cathed. sch. 377.4
Donatists sects 281.4
[1]Donegal, Ireland history 941.63
Donelson, Ft U.S.civ.war 973.752
capture " " " 973.7322
[1]Dongola, Egypt history 962.5
Doni, A. F. Ital. fiction 853.42
Donkeys dom. animals 636.182
Donne, J: Eng. satire 827.35
Door
[1] co. Wis. history 977.563
furnishings dom. econ. 645.3
keepers legis. employees 328.3625
mats lib.econ. 022.965
openers dom. " 643.6
Doors arch. construction 721.8
design 729.38
furnace steam eng. 621.18355
[1]Dorchester co. Md. hist. 975.227
Que. " 971.472
[1]Dordogne, France " 944.72
Dorian migration Gk " 938.01
Doric order architecture 729.32
Doris ancient history 938.3
Dorking fowls 636.521
Dormers architec. constr. 721.55
design 729.35
Dormitories architecture 727.2
student life 371.87
Dorr's rebellion U. S. hist. 973.58
Dorsal
cord anat. 611.8213
interosseous artery " 611.13794
muscles " **611.731**
thorax " 611.946
Dorsalis pedis " 611.13794
[1]Dorset, England history 942.33
Dorset down sheep 636.3233
Dorset
horn sheep, short-wool 636.3241
Dort confession 238.42
synod of 284.2
Dosology materia med. 615.14
Douay Bible Eng. version 220.52
Double
bass stringd instrum. 787.4
bassoon wind " 788.8
curvature, geometry 513.58
mod.anal.geom. 516.58
of spine 616.73
curvd lines descr. geom. 515.13
surfaces " " 515.15
flowers floriculture 716.2
morphology **581.4**
fluid cells elec. eng. 621.3534
moldboard plow 631.3126
plow 631.3122
refraction optics 535.5
standard coins money 332.42
stars astronomy 523.84
Doublebrested plow 631.3126
[1]Doubs, France history 944.46
Doubt metaphysics 121
Douche baths hygiene 613.44
Douglas, G. Eng. poetry 821.24
[1]Douglas co. Ill. history 977.368
[1] Mo. " 977.883
[1] Wis. " 977.511
pouch of anat. 611.6674
Dovizi, Bernardo Ital.dram. 852.32
Dower law 347.6
[1]Down, Ireland history 941.65
sheep 636.323
Cotswold, sheep 636.3234
Doyère pipets prac. chem. 542.73
Drachmann, Holger Dan.fic. 839.8366
Draco's code Grecian hist. 938.01
Draft
furnace steam eng. 621.1838
horse **636.15**
Drafting
bill legislation 328.373
drawing 744
military recruitment 355.22
room mfg plant **621.71**
Drafts games 794
U. S. civil war 973.7414
Drag farm implements 631.3611
transport 631.3733
plank 631.3146

Dragon flies insects 595.73
pests 632.73
Dragonade persecutions 272.4
Dragons folklore 398.4
Dragoons pigeons 636.5631
Drain spade 631.3111
Drainage
agriculture 631.6
engineering 627.5
house 628.6
natural mining eng. 622.52
of cities 628.2
mines 622.5
sewage farms 628.367
public helth 614.77
road engineering 625.74
shipbilding 623.85
Drains
reclamation agric. 631.62
steam pipe engin'g 621.1855
Drake, Francis
discovery of Amer. 973.17
[5]Drama
American literature 812
English " 822
freedom pol. science 323.446
French literature 842
German " 832
Greek " 882
Italian " 852
Latin " 872
miracle plays Eng. lit. 822.1
gen. hist. 809.2
religion 244
moral influence ethics 175.2
sacred 244
Spanish literature 862
Dramas Amer.civ. war 973.792
revolution 973.392
U.S.war 1812 973.5292
Dramatic
amusements 792
art theater 792
biografy actors 927.92
Eng. authors 928.22
composition 808.2
criticism 792
history 792
music 782
orchestral music 785.2
[5]Dramatists' lives, English 928.22
Draperies dom. econ. 645.3
Drastics cathartics 615.7325
Draughts games 794
Dravidian architecture 722.4
language 494
literature 894
Draw hoe 631.3151
Drawbridges engineering 624.8
Drawing 740
elementary educ. 372.52
see also special applications
Drawing mills mfg plant 621.77
room amusem'ts 793
furnishings 645.62
topografic 526.98
Drawings
architectural 729
classification & storage 025.177
detail bilding 692.2
engineering 620.04
general bilding 692.1
linear 741
mechanical engineering 621.004
prehistoric archeology 571.71
Drawnwork fancywork 746
Dray farm transport 631.3735
Drayton, M. Eng. poetry 821.34
Dream books folklore 398.7
Dreams 135
physiologic psych. 612.82176
Dred Scott
case causes U.S.civ.war 973.7115
decision slavery 326.973
U. S. hist. 973.68
Dredges, steam engin'g 621.154
Dredging engineering 627.7
foundations 721.176
machinery 627.7
scientific voy. 508.3
[1]Dresden history 943.21
travels 914.321
Dress costume 391
ecclesiastic 247.7
ethics 177.4
fashion 646.01
magazines 646.05
reform societies 646.06
Dresses domestic econ. 646.43
Dressing
hair 391.5
of stone masonry 693.12
ore mining eng. 622.7
works " " 622.79
Dressmaking 646.43
Drewry's Bluff, Va.
U. S. civ. war 973.7365
Driers laundry appli. 648.3

Drift, glacial geology 551.33
remains prehis. arch. 571.11
Drifting and tunnel'g min. 622.26
Dril military science 355.5
plow 631.3124
Drilling mech. eng. 621.952
mining " 622.23
seedage 631.5312
Drils seeding machines 631.3315
steam engins for 621.154
Drink chemic analysis 543.1
Drinking, social ethics 178.3
usages customs 394.1
Drinks, *see* Beverages
Drives landsc. gardening 713
Driving 798
Dromedary domes. animals 636.295
[1]Drôme, France history 944.98
Droop system suffrage 324.224
Dropsy diseases 616
Droseraceæ botany 583.393
Drought agriculture 632.12
meteorology 551.57
Drowning protec. of life 614.81
Drugs 615.1
adulteration of 614.35
analytic chemistry 543.4
economic botany 581.63
intoxicating ethics 178.8
hygiene 613.8
Druids 299.16
Drum musical instrum. 789.1
boiler steam eng. 621.1845
Drumhed of ear anat. 611.855
Drumlins geology 551.33
Drummond, W: Eng. poet. 821.36
[1]Drummond co. Que. history 971.456
light 665.7
Drums mining eng. 622.67
Drunkenness crim. law 343
Drupaceous fruits 634.2
Drury's Bluff, Va. battle 973.7365
Druses religion 297
Dry
cleaning dom. econ. 646.6
docks engineering 627.3
shipbilding 623.83
farming 631.586
goods trade production 338.4
method qualita. anal. 544.2
quantita. " 545.4
point engraving 767
rot bilding 691.1
Dryden, J: Eng. poetry 821.48
Drying
food preservation 641.4
laundry process 648.3
practical chemistry 542.68
printing 655.33
Dryplate processes fotog. 772
Dualism ontology 111
Parsee heresies 273.2
Parseeism 295
Duality mod. geometry 513.51
Du Bellay, J. Fr. poetry 841.32
[1]Dublin, Ire. history 941.83
travel 914.183
university 378.415
[1]Dubois co. Ind. history 977.237
[1]Dubuque city Ia. history 977.7391
[1] co. " " 977.739
Ducis, J. F. Fr. drama 842.61
Duck roofing bilding 695.8
shooting 799
Duck-bild platypus zool. 599.1
Ducks poultry 636.597
zoology 598.4
Ductility molecular phys. 539.52
Ducts, air ventilation 697.9
kidney anatomy 611.61
diseases 616.61
see also qualifying word
Dudevant, A.L.A.D. Fr.fic 843.82
Dueling ancient law 340.3
criminal " 343
customs 394.8
ethics 179.7
student life 371.82
Duets vocal music 784.82
Du Fail, Noël Fr. fiction 843.34
[1]Dufferin co. Ont. history 971.341
Dufresny, C. R. Fr. dram. 842.47
Dugouts boatbilding 623.8212
[1]Dukes co. Mass. history 974.49
Dulcimer music 787.9
Dum
asylums 362.4
bells gymnastics 613.71
education of 371.912
waiters dom. econ. 643.6
engin'g 621.87774
Dumas, A. fils Fr. dram. 842.84
A.D. père " " 842.77
fic. 843.76
Dumb, *see* Dum
Dumba sheep 636.385
[1]Dumbarton, Scotland hist. 941.37
Dumbartonshire fowls 636.528

Dumdum bullets 623.45535
[1]Dumfries, Scot. hist. 941.48
Dummy titles lib. econ. 020.88
Dumpies, Scotch poultry 636.528
Dumping grates st'm eng. 621.18354
wagons agric. 631.3735
Dunbar, W: Eng. poetry 821.23
[1]Dunbarton, Scotland 941.37
[1]Dundas co. Ont. history 971.375
Dunes geology 551.33
Dungfork digging tools 631.3114
Dunkers baptists 286.5
[1]Dunklin co. Mo. history 977.899
Dunlap, W: Am. drama 812.22
Dunlop cattle 636.2252
Dunmore's, Lord, war 973.27
[1]Dunn co. Wis. history 977.543
Duns Scotus mediev. phil. 189.4
Duodecimals arithmetic 511.1
Duodenum anatomy 611.342
diseases of 616.34
[1]Dupage co. Ill. history 977.324
Duplex telegraf commun. 654.2
elec. eng. 621.38232
Duplicate dep't lib. econ. 025.26
Duplicates
libraries and schools 021.33
library accession routine 025.261
sale of lib. econ. 025.265
Duplicating
machines offis equip. 652
notises, etc. lib. adm. 025.129
Duplication, apparent
deformities 617.34
Duployé shorthand 653.38
Dupont, Pierre French poet. 841.82
Dura mater, cerebral anat. 611.8195
sinuses of " 611.14511
spinal " 611.8295
[1]Durango, Mexico hist. 972.1
Durbar social customs 394.4
D'Urfey, T: Eng. humor 827.44
[1]Durham, England hist. 942.81
cattle 636.2222
[1] co. Ont. hist. 971.356
Duroc Jersey swine 636.483
Durra cereals 633.178
Dusseltal swine 636.431
Dust
air pollution 614.71
cosmic descrip. astron. 523.16
inhalation of hygiene 613.63
prevention of, in factories 628.511
Dusting
domestic economy 648.52
protection against pests 632.94
Dutch
cattle 636.235
cheese, hard 637.3543
soft 637.356
[1] **East Indies history 991**
[1] Guiana " 988
travels 918.8
hoe 631.3152
[4] **language 439.3**
[5] **literature 839.3**
painting 759.9
poultry 636.53
reformd church 284.1
in Amer. 285.7
[1] **republic history 949.2**
sheep 636.331
swine 636.434
[1]Dutchess co. N. Y. hist. 974.733
Duties
and customs tariff 337
moral ethics 170
of children " 173.6
citizens " 172.1
college men 378.069
husbands and wives 173.3
library staff 023.7
trustees 023.35
parents ethics 173.5
public offisers " 172.2
servants " 173.8
dom. econ. 647.7
teachers education 371.101
public sermons 252.6
remitted library aid 021.861
social ethics 177
stamp polit. econ. 336.27
Duty religion 233.4
free importation 337.8
Du Vair, Guillaume Fr. lit. 844.41
Dwarf blueberry 634.734
Dwarfs biology 573.8
Dwellings
architecture 728
farm 631.21
hygiene 613.5
laboring classes 331.83
prehistoric 571.8
sanitation 628.6
Dwight, Timothy Am. poet. 811.22
Dyadic arithmetic 511.1
Dyaks history 991.1

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Dyeing **chem. tech.** **667.2**
Dyes **agriculture** **633.86**
anilin chem. tech. 667.2
Dykes engineering 627.4
geology **551**
Dynamic electricity **537.5**
engineering **621**
geology **551**
Dynamics, celestial **521.1**
chemic 541.39
Dynamics, electro- 5 37.6
physics **531.3**
Dynamite chemic tech. 662.2
storage prot. of life 614.833
Dynamoelectric machinery **621.313**
Dynamogenesis physiology 612.8011
Dynamometer physics 531.21
physiology 612.744211
steam plant 621.1977
Dynamos
electric engineering **621.313**
electrodynamics 537.83
Dynamotors elec. eng. 621.31326
Dysentery diseases 616.935
public helth 614.516
Dyspepsia dietetic diseases 616.39
digestiv diseases 616.33
physiology **612.326**
Dyspnea " 612.2842

Ear
anatomy **611.85**
care of hygiene 613.49
def and dum asylums 362.4
arch. 725.54
diseases **surgery** **617.8**
hospitals 362.1
architecture 725.51
muscles anatomy 611.7324
physics 534.7
physiology **612.85**
psychology 152.2
rings jewelry 391.7
stones comp. anat. 591.48
human " 611.8526
physiology 612.85876
Early
Christian architecture 723.1
philosofy **189**
Christians history 270.1
education, elementary **372**
English text society 820.6
[3] **forms of Eng. language** **427.01**
Greek philosofy **182**
institutions pol. science 321.1
printed books 093
rising hygiene 613.79
Earnings, student 378.365
Earth
astronomy **525**
attraction of moon 523.33
burial of ded customs 393.1
pub. helth 614.611
closet system sanitation 628.43
figure of **526.1**
houses prehist. archeol. 571.82
Earth
internal heat of geology 551.12
movements geology 551.24
physical geology **551**
rotation of astronomy 525.35
structure of **phys. geol.** **551.1**
surface features **551.4**
irregularities 526.64
Earthenware chem. tech. 666.6
Earthquakes agriculture 632.19
geology 551.22
Earths, rare **inorg. chem.** **546.6**
Earthwork
foundations **architec.** **721.1**
engin'g **624.15**
mining " 622.21
railway engineering 625.12
roadmaking 625.73

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Earthworks fortifications 623.122
prehist. archeol. 571.9
Earthworms zoology 595.1
Earwigs pests 632.72
Easels lib. fittings 022.933
Easements law 347.2
East
and West, relig. schism 270.3
Anglian cattle 636.2267
Friesian cattle 636.2343
poultry 636.538
Friesland horse 636.143
India Company 382
[1] **Indian archipelago hist. 991**
languages 491.4
[1] **Indies history 954**
[1] **Dutch " 991**
[1] Liverpool, O. " 977.1631
[1] New Jersey " 974.91
[1] Prussia " 943.11
travels 914.311
Prussian horse 636.143
River bridge engin'g 624.5
[1] Russia history 947.8
travels 914.78
[1] St Louis, Ill. history 977.38
[1] Turkestan " 951.6
travels 915.16
Easter Anglican calendar 264.031
chronology 529.6
music 783.28
school observ. 371.365
Eastern
church 281.9
churches 281.5
[1] **empire 949.5**
iland travel 919.7
Pacific ocean phys.geog. 551.466
[1] **Panhandle, W. Va. hist. 975.49**
question Turkish history 949.6
[1] **states U. S. " 974**
Eating customs 394.1
hygiene 613.2
plesures of 641.01
[1]Eaton co. Mich. history 977.423
[1]Eau Claire city, Wis. " 977.546
[1] co. " " 977.545
Ebenaceæ botany 583.685
Ebenaceous fruits 634.45
Ebenales botany 583.68
Ebers, G; German fiction 833.86
Ebony family fruit culture 634.45
Eccentricity
in manners ethics 177
Eccentricity
of orbit of earth 525.33
seasons 525.52
Eccentrics, lives of 920.8
machinery 621.85
Ecclesiastes Bible 223.8
Ecclesiastic
antiquities 209
architecture 726
art ecclesiology 246
biografy 922
calendar chronology 529.6
ceremonies customs 394.4
costume 247
councils 262.4
courts 348
fasts personal religion 248
public worship 264
feasts 264
furniture ecclesiology 247
history 270
Latin, modern philol. 479
law canon law 348
legends 209
for special topics see topic
music 783
polity 262
statistics 209
trials 262.9
vestments ecclesiology 247.7
Ecclesiastics biografy 922
Ecclesiasticus Bible 229.4
Ecclesiology church 261
symbolism 246
Echinoderms paleontology 563.9
zoology 593.9
Echinoidea " 593.95
Echinus fishery 639.6
Echo acoustics 534.2
Eclampsia diseases 616.845
Eclectic medicin 615.5
philosofy 148
Eclipses, find'g longitude by 525.48
of moon 523.38
sun 523.78
theory 521.8
Ecliptic
inclination of equator to 525.51
plane of astron. 525.32
solar system 523.26
Ecoles congréganistes 377.3
Ecology botany 581.15
evolution 575.3
zoology 591.15

Economic
botany 581.6
chemistry chem. tech. 660
cookery dom. econ. 641.55
geology 553
value of fertilizers 631.815
zoology 591.6
Economics
butter business 637.21
cheese business 637.31
farm 631.1
milk business 637.11
nature of 330.11
of fashions dom. econ. 646.01
political economy 330
stockfarming 636.081
Economizers, feedwater 621.1972
Economy, domestic 640
ethics 174
library 020
political 330
student 378.368
Ecstasy religion 248
Ecstatics ment. derange. 132.5
Ectoblast embryology 611.01338
Ectoderm " 611.01338
Ectodermic organs " 611.0135
Ectopic gestation obstetrics 618.31
hart physiology 612.1717
Ectozoa animal parasites 616.968
[1]Ecuador history 986
travels 918.6
Ecumenic
council eccles. polity 262.5
relig. hist. 270.2
Eczema dermatology 616.52
Edam cheese 637.3543
Eddas Norse literature 839.6
Eddy currents engin'g 621.311
physics 537.6
Edema physiology 612.381
Eden orig. home of man 572.4
Edentata mammals 599.3
[1]Edgar co. Ill. history 977.369
Edgeworth, M. Eng. fiction 823.72
Edible
bulbs garden crops 635.2
flowers " 635.3
fruits " 635.6
leaves " 635.3
roots " 635.1
seeds " 635.6
stems 635.3
tubers garden crops 635.2
Edict of Nantes Huguenots 284.5
Ediles Rom. antiquities 913.37
[1]Edinburgh, Scot. history 941.44
travels 914.144
university 378.41
Editions, choice of
reading and aids 028.2
Editorial work journalism 070.4
lit. meth. 029.6
Edmund polyg. act U.S.hist. 973.84
Edom ancient history 939.46
Education 370
and the church religion 261.5
sociology 377.8
general, for library servis 023.531
in relation to labor 331.85
industrial systems 371.42
useful arts 607
of voters 324.14
women 376
young 372
public state control 351.851
system 379
self 374
suffrage qualifications 324.14
systems of 371.4
useful arts 607
[2] special, see subject
Educational
bildings architecture 727
ethics 171.7
mesurements elem. educ. 372.102
paidology 136.702
psychology 370.15
reports, public 379
sermons 252.5
Educator, library as 021.2
Educators' lives 923.7
Edward 1 Eng. history 942.035
2 " " 942.036
3 " " 942.037
4 " " 942.044
5 " " 942.045
6 " " 942.053
7 " " 942.082
Edwards, J. Am. philos. 191.1
[1]Edwards co. Ill. history 977.3791
Ferry, Va. U.S.hist. 973.7318
Eels zoology 597.5
Effect
andcause metaphysics 122
perspectiv arch. design 729.15
Effen, J. van Dutch essays 839.344

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Efficiency
and college training 378.01
school courses 375.0072
Efficiency
bonus economics 331.225
business methods 658
Effigies, monumental 718
[1]Effingham co. Ill. hist. 977.3796
Efflorescence chemistry 541.39
Effluvium nuisances 628.52
Efflux hydraulics 532.56
Eg embryology 591.3
Eggleston, E: Am. fiction 813.42
Egg, eggs, *see* Eg, egs
Egina marbles anc. sculpt. 733
Egoism ethics 171.9
Egplant 635.646
Egs cookery 641.665
dietetics 613.28
food value 641.12
oology 598.2
phys. of nutrition 612.39283
poultry 636.5
raising fowls for 636.0883
zootechny 636.08246
Eg-shape of sewers 628.224
Egypt administration 354.62
antiquities 913.32
architecture 722.2
art 709.32
botany 581.962
finance 336.62
geology 556.2
hieroglyphics 493.1
history, ancient 932
[1] **modern 962**
[4] **language, old 493.1**
maps 912.62
mythology 299.31
obelisks, antiq. 913.32
monum. 718
philosofers 181.2
pyramids, antiq. 913.32
religion 299.31
schools 379.62
statistics 316.2
travel 916.2
treaties 341.262
other topics see table 1
Egyptian corn 633.178
goat 636.39862
goose 636.59887
sheep 636.386
[1]Egytian Sudan history 962.6
travels 916.26
Egyptology antiquities 913.32
Ehrensvärd, T. C. Gyllembourg Danish fiction 839.8361
Eichendorff, J. Ger. poetry 831.72
Eiderstedt sheep 636.3314
Eight hour law pol. econ. 331.81
Eighth nerv anatomy 611.8318
physiology 612.8198
Eilschov, F. K. Dan. misc. 839.8843
Ejaculatory duct anat. 611.635
Ejectment law 347.2
Ejectors mech. engin'g 621.69
Elæagnaceæ botany 583.935
Elasmobranchii fishes 597.3
Elastic tissue histology 611.01827
Elasticity
of muscle physiology 612.7414
physics 539.3
pulmonary physiology 612.212
tests engineering 620.1123
Elastin nutrition 612.398146
Elateridæ zoology 595.76
Elatineæ botany 583.161
Elbingen sheep 636.3317
Elbow anatomy 611.973
joint " 611.7273
Elci, A. M. d' Ital. satire 857.66
Elderberry agriculture 634.747
Elders ecclesiastic polity 262.15
El Dorado folklore 398.3
[1] co. Cal. hist. 979.441
Eleatic Greek philosofers 182.3
Election
doctrinal theology 234.9
frauds suffrage 324.27
U. S. 324.73
sermons 252.6
to legislativ body 328.3355
Elections
city admin. 352.004
legislativ jurisdiction 328.342
U. S. law 324.73
voting procedure 324.24
Electiv franchise 324
system education 375.004
Electoral
college suffrage 324.249
commission " 324.73
U. S. hist. 973.82
frauds suffrage 324.27
lists " 324.241

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Electoral
system polit. science 321.8
systems suffrage 324.21
Electric
animals comp. physiol. 612.771
apparatus inspection 614.836
communication eng. 621.38
cooking appliances 643.336
elevators engin'g 621.8775
lib. bldgs 022.95
engineering 621.3
execution of criminals 343.2
furnace physics 537.85
prac. chem. 542.47
heating bilding 697.7
dom. econ. 644.26
heating prac. chem. 542.47
irritation of nervs 612.8161
light domest. econ. 644.315
libraries 022.754
mech. eng. 621.32
physics 537.83
lighting shipbilding 623.85
stations 621.3122
machinery engin'g 621.313
machines physics 537.23
manipulation chem. 542.8
mesurements engin'g 621.37
physics 537.7
mesuring of temperature 536.53
methods qual. analysis 544.9
quan. " 545.3
phenomena physics 537.4
of muscles physiol. 612.743
nervs " 612.813
skin " 612.795
plant shipbilding 623.85
plow 631.3123
power stations eng. 621.312
transmission " 621.319
railways " 621.33
resistance mesology 612.014422
shock surgery 617.12
signals physics 537.88
stimulation of hart 612.1723
storms physics 538.7
stoves kitch. equip. 643.336
telegraf, communication 654
engineering 621.382
physics 537.81
testing useful arts 621.37
traction stations 621.3123
vehicles engin'g 629.2
vessels shipbilding 623.823
Electricians lib. econ. 023.772
Electricity 537
accidents from 614.836
animal mind and body 134
physiology 612.014423
zoology 591.57
applied engineering 621.3
physics 537.8
cooking by 641.586
effect on muscles 612.74163
farm power 631.3717
generation useful arts 621.31
heating by dom. econ. 644.26
hygiene 613.16
therapeutics 615.84
Electro-
analysis qualitativ 544.9
quantitativ 545.3
ballistic machines gun'ry 623.5
biology animal mag. 134
biology 577
blasting mining 622.23
chemic autom. teleg. 621.38241
chemistry 541.37
chronograf astronomy 522.52
culture crops 631.5881
dialysis prac. chem. 542.8
dynamics 537.6
kinetics dynamic elec. 537.5
magnetism 538.3
metallurgy 537.85
motors machines 621.313
science 537.83
physiology anim. mag. 134
biology 577
physiology 612.01442
plating metallurgy 537.85
Electrodes electrophysiol. 612.014421
engineering 621.3522
Electrolysis qual. anal. 544.9
quant. " 545.3
Electrolytes elec. eng. 621.3524
Electrolytic anal. chem. 545.3
rectifiers eng. 621.31374
Electrometers engin'g 621.3743
physics 537.25
Electromotiv
force of hart 612.1724
phenomena
of nervous excitation 612.8223
Electromotors elec. eng. 621.313
Electrons chemistry 541.2
Electrostatic apparatus eng. 621.315
Electrostatics static elec. 537.2

Electrotherapy
electric engineering 621.3915
electrophysiology 612.014428
medicin 615.84
Electrotonus electrophys. 612.014423
physiology 612.8133
Electrotyping printing 655.22
Eleemosynary institutions 361
[5]Elegiac poetry Eng. lit. 821.04
Gk " 884
Latin " 874
Elemental destruction agric. 632.1
Elementary
education 372
forms arch. design 729.3
[3] readers Eng. language 428.6
schools 372.9
gymnastics in 371.7321
libraries for 371.645
manual training 371.422
theory of music 781.2
Elements
chemic chem. tech. 661.1
chemistry 546
false " 546.99
required architec. design 729.21
Elephants mammals 599.6
Eleusinian mysteries
Greek antiquities 913.38
mythology 292
Elevated
ground hygiene 613.12
railroad city transit 388
engineering 625.4
stations arch. 725.318
temperature hygiene 613.64
ways public helth 614.782
Elevation archit. design 729.1
lib. bildings 022.341
Elevations meteorology 551.53
Elevatormen lib. econ. 023.793
Elevators
grain architecture 725.36
hydraulic machinery 621.263
library bildings 022.95
mech. engineering 621.877
Eleventh nerv anatomy 611.83192
physiol. 612.8192
[1]Elgin, Scotland history 941.23
[1] city, Ill. " 977.323
[1] co. Ont. " 971.334
marbles 733
Elian philosofers Gk phil. 183.7
Eliesen, Povel Dan. mis. 839.8822
Eligibility
to legislativ body 328.331
offis citizenship 323.68
Eliminants algebra 512.85
Eliot, George Eng. fic. 823.88
[1]Elis ancient history 938.8
Elixir of life alchemy 540.1
Elizabeth, Queen Eng. hist. 942.055
[1]Elizabeth, N. J. history 974.937
Elizabethan persecutions 272.7
style arch 724.4
[1]Elk co. Pa. history 974.865
[1] **valley, W. Va. " 975.464**
[1]Elkhart co. Ind. " 977.281
Elkhorn tavern, Ark.
U. S. civ. war 973.7323
Ellipse analytic geom. 516.23
geometry 513.23
Ellipsis Eng. language 425.3
[3] other languages
Ellipsoid analytic geom. 516.43
Ellipsoidal figure geodesy 526.16
Ellipsoids, potentials of 526.11
Elliptic functions calculus 517.36
Ellipticity, law of geodesy 526.13
[1]Elmira, N. Y. history 974.779
Elocution 808.5
vocal culture 784.9
Elongated
bullets ordnance 623.45125
small arms 623.4552
projectils ordnance 623.4512
Eloquence 808.5
[5] **Eng. oratory 825**
Elvs folklore 398.4
Elzevir editions rarities 094
Emanation metaphysics 129.5
Emancipation
of slaves 326.8
woman 396.1
proclamation U. S. hist. 973.714
Embalming customs 393.3
pub. helth 614.64
Embankments reclamation 631.64
river eng. 627.4
Embargo martial law 344
of 1808–12 U. S. hist. 973.48
Embassadors interna. law 341.7
polit. sci. 327
Emblematic art ecclesiol. 246.5
Emblems " 246
Embolism of pulmon. artery 616.247
Embossing book lib. econ. 025.252
telegraf eng. 621.38244

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Embroidery 746
Embryo anatomy 611.013
physiology 612.64
zoology 591.33
Embryology animals 591.3
botany 581.3
experimen. 611.0139
human 611.013
physiology 612.64
Embryotomy obstet. oper. 618.83
Emden goose 636.5983
Emergencies surgery 617.1
Emergency help dom. econ. 647.29
Emerson, R.W. Am. lit. 814.36
phil. 191.3
transcendentalism 141
Emery econom. geol. 553.65
wheels mach. tools 621.923
Emetics physiology 612.3278
therapeutics 615.731
Emigrants polit. science 325.2
Emigration " " 325
[1]Emilia, Italy history 945.4
Eminent domain law 347.2
Emissary vein anatomy 611.14513
Emmental cheese 637.3543
[1]Emmet co. Ia. history 977.7125
[1] Mich. " 977.488
Emollients external thera. 615.776
internal " 615.735
Emotions physiol. psych. 612.82133
psychology 157
Empedocles Gk philosofers 182.5
Emperor Ger. empire 354.4305
Emperors biografy 923.1
Empetraceæ botany 583.984
Emphysema lung dis. 616.248
[1]Empire, Eastern history 949.5
French 1st " 944.05
2d " 944.07
German gov't 354.4303
political science 321.03
Roman hist. 937.06
Western, fall of " 937.09
Empiric medicins, *see* Patent medicins
philosofy 144
Empiricism in medicin 614.26
Employees
associations 331.88
domestic occasional 647.29
regular 647.2
legislativ 328.362
Employers
and employed ethics 174.8
pol. econ. 331.1
liability 331.82
insurance 331.25
Employment
agencies, *see* Agencies
hygiene 613.6
of children pol. econ. 331.3
time ethics 179.9
women customs 396.5
pol. econ. 331.4
Empresses biografy 923.1
Emulation ethics 179
[3]Enallage Eng. syntax 425.2
Enamel arch. decoration 729.65
chem. technology 666.2
painting 751
sacred ornam. 247.4
Enarthrosis anatomy 611.72963
Encaustic painting 751
Encephalon anatomy 611.81
Enclosures of doors and win. 721.86
Encyclic letters eccles. pol. 262.8
Encyclopedias, general 030
[2] special, see subject
Encyclopedists, Fr. relig. 239.6
lives 920.3
Endbrain anatomy 611.813
Endemic diseases 616
Endemics med. geografy 614.42
Endive 635.55
Endless punishment theol. 237.7
screw mech. eng'g 621.8333
Endocardium anatomy 611.126
Endoderm embryology 611.01337
Endodermic organs " 611.0134
Endogamy customs 392.5
Endolymf physiology 612.8586
Endometrium anatomy 611.662
Endoneurium histology 611.018835
Endosmose liquids 532.7
Endowd libraries 027.4
schools education 373
vs public schools 379.3
Endowment
library support 021.92
life insurance 368.3
of research colleges 378.32
public school support 379.13
Endowments
library finance 025.111
special subjects 025.211
Endyma anatomy 611.828

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Enemeta, nutritiv hygiene 613.23
Enemies of pests agric. 632.96
Enemy
sympathizers Great war 940.3163
Energy, conservation of 531.6
vital physiology 612.0137
Engelbrektsdatter, D. 839.8136
Engin and coach wagon 621.1328
driven vessels **623.823**
houses architecture 725.19
Engineering, civil **620**
dynamic **621**
electric **621.3**
illuminating 628.9
industrial 658
locomotiv **621.13**
materials **620.1**
mechanic **621**
municipal 352.5
topografic **526.9**
Engineers lives 926.2
military sci. 358.2
U. S. civ. war 973.7417
Engins **621**
England
administration **354.42**
antiquities **913.42**
architecture **720.942**
army 354.426
bank of 332.15
biografy **920.042**
botany **581.942**
church **283**
colleges education 378.42
constitution **342.42**
education 370.942
finance 336.42
geology **554.2**
government central **354.42**
local **352.042**
[1] **history** **942**
[3] **language** **420**
old 427.01
law **346**
libraries 027.042
literature **820**
local government **352.042**
maps **912.42**
navy 354.427
painting 759.2
peerage, etc. **929.72**
philosofers **192**
philosofers lives 921.2
England
private law **347**
religious history **274.2**
Romanesque architecture 723.42
schools, public 379.42
sculpture 735
slavery **326**
societies, general 062
statistics **314.2**
travel **914.2**
treaties 341.242
universities education 378.42
zoology **591.942**
English
Cambridge turkey 636.5922
carrier pigeon 636.59612
cattle **636.22**
cheese, hard 637.3542
soft 637.3532
coach horse **636.142**
composition **808**
cyclopedias 032
deists apologetics 239.5
discovery of America 973.17
draft horse **636.152**
ducks **636.5972**
ephemerides 528.2
game poultry 636.58812
goat 636.392
language **420**
literature **820**
newspapers 072
periodicals, general 052
[3] **philology** **420**
pony **636.162**
poultry **636.52**
prisons Amer. revol. 973.371
U.S.war of 1812 973.5271
sheep **636.32**
socialism 335.1
swine **636.42**
thorobred horse 636.122
walnut 634.511
Engravers lives 927.6
occupation 613.65
Engraving **760**
books of 769
of seals and gems 736
Engravings
cases for lib. fittings 022.485
catalogs of 016.76
collections of 769
special library material 025.177

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Engrossing
clerks, legislativ 328.3623
legislativ bills 328.373
Enharmonic organ music 786.9
Enigmas amusements 793
5 **English litera. 828**
Enlistment army 355.22
Ennius Latin drama 872.4
Enoch, Book of 229
Enrolment
bill legislation 328.373
school organization 371.21
Ensiform bone anatomy 611.713
Ensigns flags 929.9
Ensilage
agriculture 633
crops agriculture 633.3
cutters " 631.363
zootechny 636.08552
Entail law 347.2
Entente
Great war 1914–19 940.332
Enteric fever diseases 616.927
pub. helth 614.511
Enterokinasis physiology 612.33284
Enteropneusta zoology 593.99
Enterprise, ship
U. S. war of 1812 973.5253
Entertaining
5 **collections Eng. lit. 828**
domestic economy 642.4
Entertainments
and libraries 021.45
library support 021.96
licenses for 352.8
private dom. econ. 642.41
public amusements 791
dom. econ. 642.45
Enthusiasm psychology 157
religious 269
Enthymeme logic 166
Entity
of state political science 320.15
Entoderm anatomy 611.01337
Entomology zoology 595.7
Entomophthoreæ botany 589.229
Entomostraca zoology 595.31
Entoptic phenomena 612.8434
Entozoa parasitic dis. 616.962
zoology 595.1
Entrance
halls library bldgs 022.681
requirements educ. 371.21
Entrées cookery 641.82
Entropy engineering 621.1011
physics 536.7
Enunciation elocution 808.5
Envallsson, K: Swed. lit. 839.7254
Environment
evolution 575.3
influence of physiol. 612.0144
therapeu. 615.56
on man 573.4
mental characteristics 136.2
Envy ethics 179.8
Enzina, J. del Span. dram. 862.21
Eocene fossils paleontol. 560
period geology 551.781
Eolian harp music 787.5
Eolithic age prehist arch. 571.1
Epacrideæ botany 583.64
Epencephalon anatomy 611.817
Ependyma " 611.828
Ependymal cells histol. 611.01884
Epervier, ship
U. S. war of 1812 973.5255
Ephemerides 528
Ephesians Bible 227.5
Ephesus, first council of 270.23
history, ancient 939.23
1 modern 956.2
Epiblast embryology 611.01338
Epic dramatic music 782.2
painting 753
5 poetry Eng. lit. 821.03
Greek 883
Latin 873
Epicharmus Gk drama 882.5
Epicranial muscles anat. 611.7322
Epictetus Gk philosofers 188.7
Epicurean philosofy 187
Epicurism dom. econ. 641.01
Epidemic
catarrh diseases 616.203
monomania derangem'ts 132.1
Epidemics
contagious diseases 614.5
diseases 616
library economy 024.47
public helth 614.49
Epidermal layer embryol. 611.0135
Epidermis anatomy 611.771
Epididymis " 611.632

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Epigastric
artery, inferior anat. 611.13781
superior " 611.1345
plexus " **611.83931**
region " 611.951
Epigenesis spontan. gener. 576.1
Epiglottis anatomy 611.221
physiology 612.7825
[5]**Epigrams Eng. literature 828**
Epigyneæ botany 584.2
Epilepsy
cortical physiology 612.8253
diseases 616.853
institutions 362.8
Epineurium histology 611.018835
Epiphany Anglican fest. 264.031
Epipharynx anatomy 611.3271
Epiphysis cerebri " 611.8145
Epiploon " 611.382
Epirus ancient history 938.2
Episcopacy sects 283
Episcopal charges serm. 252.1
church 283
in Scot. 283.41
orders ministry 262.17
Episcopalians biografy 922.3
Episcopate ministry 262.12
Epispastics therapeutics 615.774
Epistles Anglican ritual 264.036
Bible 227
[5] **Eng. literature 826**
[5]Epistolary writers, Eng. 928.26
Epistolografy 808.6
Epistropheus anatomy 611.7113
Epitafs genealogy 929.5
monuments 718
Epithalamus anatomy 611.8145
Epithelial tissue histology 611.0187
Epitheliums, glandular 612.409
[3]Epithets Eng. language 426.8
Epitrochleal glands anat. 611.4672
Epizoa parasites, zoology 591.69
Epizootic diseases vet. med. 619
Epoophoron anatomy 611.6676
[1]Equador history 986
Equality
legal political science 323.42
of individuals " " 323.41
races " " 323.41
social ethics 177.5
Equalization
of representation pol. sci. 328.3345
Equation
machine astron. instru. 522.54
Equation
of center orbits 521.38
time chronology 529.1
personal astron. correc. 522.97
Equations, algebraic 512.3
chemic 541.9
indeterminate 512.23
numeric 512.2
theory of 512.82
trigonometric 514.4
Equator, inclina. of seas'ns 525.51
Equatorial
belt earth 525.14
mounting telescopes 522.26
telescope astron. 522.46
Equestrian exercise 798
Equilibrium
astronomy laws 521.11
chemistry 541.39
of liquids physics 532.2
rotating spheroid 526.12
sense of physiology 612.886
Equinoxes astronomy 525.5
Equipment of armies 355.8
navies 359
ships 623.86
Equisetæ botany 587.2
Equity law 347.8
of redemp. law 347.2
Equivalence of force phys. 531.21
theoret. chem. 541.2
Equivalent projec. on maps 526.85
Equivocation ethics 177.3
Erbium metals 546.65
Erckmann, Emile Fr. fic. 843.85
Erectil tissues vasomotors 612.188
Erection physiology 612.612
Erector spinae anatomy 611.7313
Erepsin physiology 612.3324
Eretrian philosofers 183.7
Ergograf physiology 612.744211
Ergot stimulants 615.711
uterins 615.766
Eric the Red discov. of Am. 973.13
Ericaceæ botany 583.62
Ericales " 583.6
Ericson, Leif discov. of Am. 973.13
Erie canal U. S. history 973.55
[1] co. N. Y. " 974.796
[1] O. " 977.122
[1] Pa. " 974.899
Ft, capture U.S. hist. 973.5237
Lake, battle " 973.5254
Eriocauleæ botany 584.81

Erizzo, S. Ital. fiction 853.43
Erlenmeyer flasks chem. 542.231
Erosion geology 551.3
Erotica ethics 176
Errata proofreading 655.25
Erratic boulders geology 551.33
Errhines therapeutics 615.726
Error, sources of logic 165
[3]Errors, gram. Eng. lang. 428.3
of observ. probabil. 519.6
[3] speech Eng.lang. 428.3
popular occultism 133.7
[4]Erse language 491.61
Eruptions volcanoes 551.21
Eruptiv fevers diseases 616.911
Erysipelas " 616.942
Erythrocytes physiol. 612.111
[1]Erzerum, Asiat.Turk. hist. 956.6
Escalators mech. engin'g 621.8676
Escapements watchmaking 681
Escharotics therapeutics 615.775
Eschatology 236
Escurial sheep 636.361
Esdras Bible 229.1
Eskimo dress dom. econ. 646.091
history 998
Esofageal
artery anatomy 611.1355
branches of vagus " 611.831919
Esofagus anatomy 611.329
diseases of 616.32
physiology 612.315
Espalier training 631.5463
Espaliers plant supports 631.3453
Esparto grass fibers 633.583
Esperanto language 408.9
Espronceda, J. de Span. poet. 861.52
Esquimaux dress 646.091
history 998
Essayists, Eng. biografy 928.24
Fr. " 928.44
Ger. " 928.34
[5]Essays Eng. literature 824
general collections 040
[2] special topic see subj.
Essence metaphysics 121
Essences chem. tech. 668.5
Essenes Jewish relig. 296
Essential oils chem. tech. 668.5
[1]Essex, England hist. 942.67
[1] co. Mass. " 974.45
[1] N. J. " 974.931
[1] N. Y. " 974.753
travel 917.4753
[1]Essex co. Ont. history 971.331
[1] Vt. " 974.32
ship U.S.war 1812 973.5255
swine 636.4211
Establisht church, Anglican 283
Estaires poultry 636.547
Estates law 347.6
of the relm 328
social classes 323.3
Esters organic chem. 547.4
Esther Apocrypha 229.2
Bible 222.9
Esthesiometers physiology 612.8831
Esthetics architecture 720.1
fine arts 701
gastronomy 641.01
literature 801
[1]Esthonia, Russia history 947.4
travel 914.74
Estimates bilding 692.5
[1]Estramadura, Sp. history 946.2
sheep 636.361
Etchers biografy 927.6
Etching 767
Eternal life doc. theol. 237
punishm't " " 237.7
Eternity doctrins 237.1
natural theol. 218
Ether anesthetics 615.781
light 535.1
physics 530.1
poisons 615.965
temperance 178.8
Etherege, Sir G: Eng. dram. 822.42
Ethers chem. tech. 668.5
organ. chem. 547.4
Ethical culture societies 170.6
education 377.2
ethics 170.7
Ethics 170
legal 174.3
of copyright 655.61
relation to pol. econ. 330.1917
social 177
Ethiopia ancient history 939.78
[1] modern " 966
[4]Ethiopic language 492.8
Ethmoid bone anatomy 611.7156
Ethnic religions 290
Ethnografic
basis theory of state 320.121
Ethnografy 572
Ethnology 572
Ethnopsychology 136.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Etiology medicin 616.01
Etiquet customs 395
ethics 177.1
Etruria ancient history 937.5
Etruscan architecture 722.6
[4] language 477.5
Etudes piano music 786.47
[3]**Etymologies Eng. lang. 422**
Etymology
comparativ philology 412
[3] **inflection Eng. lang. 425.1**
[4] other "
Euboea ancient history 938.4
Eubulides Greek philos. 183.6
Eucharist sacrament 265.3
Eucharistic
music religious art 246.8
vessels sacred furniture 247.8
Euchre amusements 795
Euclid Greek philosofers 183.6
Euclidian geometry 513
Eudemonism
private ethics 171.4
public " 171.5
Eudemus Greek philosofers 185.3
Eudiometer exper. chem. 542.76
Eudiometry quant. anal. 545.7
Euganoids zoology 597.4
Eugenics evolution 575.1
hygiene 613.94
Eugubine tables Umbrian
language 477.4
Eulerian integrals calculus 517.32
Eulogies biografy 920
sermons 252.9
Euphonium wind instr. 788.44
Euphorbiaceæ botany 583.951
Euphuism rhetoric 808
[1]Eure, France history 944.24
[1] et Loir, Fr. " 944.51
Euripides Greek drama 882.3
Europe antiquities 913.4
botany 581.94
eccles. hist. 274
geology 554
[1] **history 940**
religious hist. 274
statistics 314
travels 914
European bison 636.2923
black currant 634.7231
chestnut 634.531
gooseberry 634.726
plan table syst. 642.53
European politics parties 329.94
raspberries 634.712
Europium inorg. chem. 546.696
Eurypterida fossils 565.3
Eustachian tube anatomy 611.856
ear dis. 617.86
physiol. 612.856
valv anatomy 611.12662
Eutaw Springs Am. revol. 973.3373
Evald, Johannes Dan. poet 839.8152
Evaluation of books 028.8
Evangelic alliance relig. 206
Evangelist ministry 262.15
Evangelistic
art 246.7
music ecclesiology 246.7
sacred music 783.7
work pastoral theol. 253
writings practical " 243
[1]Evansville, Ind. history 977.233
Evaporating dishes chem. 542.232
Evaporation
cutaneous physiol. 612.524
food preservation 641.4
heat chemistry 542.48
meteorology 551.57
physics 536.44
pulmonary physiol. 612.523
steam engineering 621.18413
vacuum chemistry 542.77
Evening
opening lib. econ. 024.33
prayer Anglic. ritual 264.034
fam. devotions 249
personal " 248
schools pub. education 379.19
self " 374.8
work lib. econ. 023.631
Everaert, Cornelis Dut. lit. 839.3124
Everett, Edward Am.orat. 815.31
shorthand 653.72
Evergreens coniferæ 585.2
horticulture 715
Everlasting punishment 237.7
Evidence circumstantial 347.94
law 347.94
logic 163
Evidences, Bible 220.1
of Christianity 239
Evil eye 133.4
natural theology 216
origin of 216
pessimism 149.6

Evil **sin** **233**
spirits 235
theodicy 231.8
Evolution
algebra 512.7
apologetics 239.8
arithmetic 511.7
biology **575**
effect of nervous system 612.8013
ethics 171.7
natural theology 213
religion and science 215
theory of state 320.153
Ewes dairy 637.173
Ex libris 097
Exact reference lit. meth. 029.1
Examination
civil servis 351.3
Examination
for academic degrees 378.244
of credentials suffrage 324.423
teachers education 371.13
papers Eng. philol. 428.9
post mortem pathology 616.079
school education 371.27
Examinations
competitiv civil servis 351.3
schools 371.27
Examining boards, med. 614.24
Exanthemata contag. dis. **614.52**
Excavating machinery **621.86**
Excavation
foundations architec. 721.12
engin'g 624.152
mining 622.21
Excavations antiquities **913**
Excellence
standards zootechny 636.08114
Excess of food hygiene 613.25
Exchange
bills of law 347.7
money 332.5
department lib. econ. 025.266
international money 332.45
of duplicates lib. admin. 025.266
prisoners Amer. revol. 973.373
Great war 940.473
U.S.civ.war. 973.773
professors 378.12
specimens biology 579.614
stock 332.6
tables business 658
territorial pol. sci. 320.1267
Exchanges
architecture 725.25
library law 021.85
methods 025.226
telefone central **621.3854**
private 621.3858
Exchequer
Great Britain adminis. 354.422
finance 336.42
United States adminis. 353.2
finance 336.73
Excise laws 336.27
offises architecture 725.14
public funds 336.27
Excitability
cerebral physiol. 612.8251
of cord " 612.832
Excitants therapeutics 615.785
Exclusion
from suffrage pol. sci. 324.17
Excommunication eccl. pol. 262.9
Excrementa sewerage **628.2**
Excrements physiology 612.361
Excreta, disinfection 614.48
Excretion
biliary physiol. **612.3577**
physiologic zoology **591.14**
physiology **612.4**
Excretions, respiratory **612.26**
Excretory organs
comparativ anatomy 591.44
descriptiv " 591.74
Excuses, readers' lib. econ. 024.73
Execution criminal law 343.2
Executiv
advice to legis. bodies 328.372
department const. law 342
lib. admin. **025.1**
offiser library gov't **023.4**
titles 023.71
powers of legis. bodies 328.252
session " " 328.357
Executors law 347.6
Exegesis Bible 220.6
Exemplaria typographica **090**
Exemption from mil. servis 355.22
taxation 336.29
Exercise
children's dom. econ. 649.5
curativ therapeutics 615.82
diaforetics " 615.743
for library workers 023.54
hygiene **613.7**
physiology of 612.7661

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Exhalation
cutaneous physiology 612.793
of vapor zoology 591.129
water vapor physiol. 612.25
Exhaustion
effects of diseases 616.986
of soil 631.45
Exhaust pipe locom. boiler 621.1335
steam, utilization 621.1858
Exhibition cases, library 022.931
halls architec. 725.91
room lib. bldg 022.657
Exhibitions, bilding 690.6
international 606
of art 708
industry 606
school 371.29
2 special see subj.
Exhortations pub. worsh. 264.6
Exile punishments 343.2
social ethics 177.8
Exmoor pony 636.1624
sheep 636.3263
Exodus Bible 222.12
Exofficio
members of legis. bodies 328.332
Exoffisers
exofficio in legis. bodies 328.3323
Exogamy customs 392.5
Exorcism 133.4
Exotics horticulture 716
Expanding bullets 623.45535
Expansion
heat physics 536.41
joints steam eng. 621.1857
system, direct refrig. 621.5652
territorial pol. sci. 320.126
Expatriation 341.5
Expectorants therapeu. 615.721
Expedition, see specific name
Expeditions, scientific 508.3
Expellent forces obstet. 618.51
Expenditure, pub. finance 336
Expenses
allowance to teachers 371.163
butter business 637.217
cheese business 637.317
dairy 637.117
domestic economy 647.1
farm 631.17
library finance 025.116
Expenses
living teachers salaries 371.164
of college students 378.368
traveling, of legislators 328.333
zootechny 636.0817
Experience
Experiment stations, agric. 630.72
Experimental chemistry 542
psychology 612.821
Experiments
chemic 542
fertilizer 631.88
food zootechny 636.0853
physics 530.7
soil agriculture 631.42
Expert, library 023.4
Exploding devices mil. eng. 623.454
Exploitation mining 622.3
Exploration hygiene 613.69
mining 622.1
Explorations 910
history of 910.9
scientific 508.3
Explorers biografy 923.9
Explosions
history of 614.83
of ammunition 623.483
fire damp min. eng. 622.81
protection of life 614.83
Explosiv bullets 623.45535
Explosivs
agriculture 631.513
chemic technology 662
factory storage 621.7964
manufacture hygiene 613.66
protec. of life 614.831
military engineering 623.452
mining dangers 622.85
Exponential formulae trig. 514.3
Export duties U. S. tariff 336.26
Exportation commerce 382
Exports " 382
free trade 337
Expositions useful arts 606
2 special see subject
Expository sermons 252.8
Exposure
of children customs 392.2
ded " 393.4
to cold protection of life 614.87
Expresidents
in legislativ bodies 328.3322
Express companies sociol. 385
useful arts 656

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Expression
facial art anatomy 743
physiognomy 138
musical 780.1
practical chemistry 542.68
Expropriation realty 347.2
Expulsion
legislativ bodies 328.344
school disciplin 371.56
Extatics mental derange. 132.5
Extemporaneous speaking 808.5
Extempore prayer 264.1
Extension
courses dom. econ. 640.714
education 374.6
relation to lib. 021.44
of libraries 021.6
university 378.13
work agriculture 630.717
Extensometer 620.112
Extensor
carpi radialis brevior 611.73763
longus 611.73762
ulnaris 611.73764
digitorum longus 611.73842
hallucis " 611.73843
of index finger 611.73769
Extensors of fingers 611.73765
forearm 611.7376
thum 611.73768
External
agencies therapeutics 615.77
ear anatomy 611.858
diseases of 617.81
physiology 612.851
motoroculi nerv, *see* Sixth nerv
plastering and stucco 693.61
walls, incrusted architec. 729.61
windows arch. const. 721.84
Extinct animals paleon. 560
plants paleon. 561
Extinction
of fire protec. of life 614.843
species 575.6
painless, of animal life 614.971
Extra
books for readers lib. 024.71
fingers or toes surgery 617.36
pay legislativ patronage 328.3626
wage scales 331.225
session legislativ bodies 328.358
time for readers lib. 024.72
Extraction mining 622.6
of teeth 617.66
Extractors laundry mach. 648.3
stump agriculture 631.3117
[5]**Extracts Eng. literature 828**
chem. tech. 668.5
on special subjects see subject
Extradition internat. law 341.4
Extraterritoriality 341.7
Extra-uterin pregnancy 618.31
Extravagance col. students 378.368
Extreme unction sacram. 265.7
Extremities, lower, anat. 611.98
surgery 617.58
upper, anat. 611.97
surgery 617.57
Exudations physiology 612.381
Eye, *see* Eyes
Eyebrows anatomy 611.8476
Eyelashes " 611.8475
Eyelids " 611.847
and motoroculi physiol. 612.81932
eye diseases 617.77
Eyepiece telescope 522.23
Eyes
anatomy 611.84
artificial surgery 617.79
asylums for blind 362.4
care of hygiene 613.49
school hygiene 371.72
diagnosis pathology 616.073
diseases of surgery 617.7
hospitals 362.1
architecture 725.51
muscles anatomy 611.7325
innervation of 612.81933
optics 535.7
physiology 612.84
protection in factories 628.512
psychology 152.1
Ezekiel Bible 224.4
Ezra " 222.7

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[5]**Fables Eng. literature 828**
Fabre d'Eglantine, P. F. N. 842.64
Fabrics
balloon aeronautics 629.161
textil manufacture 677
Façades architecture 729.1
Face
anatomy 611.92
bones anat. 611.716
lymfatic glands " 611.462
lymfatics " 611.4212
surgery 617.52
Faces of type printing 655.24
[5]**Facetiae Eng. literature 827**
Facial
angle craniology 573.7
artery anatomy 611.13323
muscles, effect of nervs on 612.81971
nerv anatomy 611.8317
nucleus " 611.8176
physiol. 612.8197
paralysis " 612.81978
veins anatomy 611.14517
Facsimile telegraf elec. eng. 621.3827
Facsimiles Class with originals
Factories
architecture 725.4
arrangement engin'g 621.7
butter 637.231
care of dom econ. 647.964
carriage and car arch. 725.45
cheese 637.331
cooperativ pol. econ. 334.6
furniture architecture 725.44
sanitation in 628.51
useful arts 670
Factors and brokers law 347.7
Factory
inspection polit. econ. 331.82
laws polit. econ. 338.9
management bus. meth. 658
system labor and wages 331
waste sanitary engin'g 628.54
Faculæ sun 523.74
Faculty
intuitiv mental science 156
libraries 023.73
schools 371.1
student aid 378.364
universities and colleges 378.12
Fagging student life 371.82
Fahlbands econom. geol. 553.17
Fahlcrantz, K. E. Swed. sat. 839.7763
Faience ware pottery 738
Failures, trade 332.7
Fair Oaks, Va. battle 973.7327
Fairbairn wheels 621.223
[1]Fairfield co. Ct. history 974.69
[1] O. " 977.158
Fairies 398.4
Fairs agricultural 630.6
amusements 791
commercial 381
industrial 606
library support 021.96
social customs 394.6
[5]**Fairy tales Eng. lit. 823**
folklore 398.4
mythology 291
Faith
confessions of creeds 238
pub. worship 264.5
cure religion 265.8
therapeutics 615.852
doctrinal theology 234.2
logic of assent 163
Falconry amusements 799
Faldella, G. Ital. fiction 853.85
Faliscus, Gratius Lat. poet 871.4
[1]Falkland ilands history 997
travels 919.7
Fall of ground mines 622.83
man doctr. theol. 233.1
squash 635.622
Fallacies logic 165
Fallen, parish care of 258
Fallières French history 944.08
Falling bodies
deviation astron. 525.37
laws physics 531.52
Fallopian tubes anatomy 611.656
gynecol. 618.12
Fallowing agriculture 631.581
False elements chemistry 546.99
returns elections 324.275
Falsehood ethics 177.3
Falsten, Enevold Dan. lit. 839.8254
Falster, Kristian " poet 839.8143
Falx cerebelli anatomy 611.8195
cerebri " 611.8195
Fame social ethics 177
Family
devotions prac. religion 249
ethics 173
form of state 321.1
genealogies 929.2
histories 929.2
hotels architecture 728.2

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Family
law 347.6
libraries **027.1**
meals dom. econ. 642.1
medicin 616.02
relations customs 392.3
to state 323.45
worship 249
Famin fever diseases 616.924
hygiene 613.24
Famins 616.985
Fanariots description 914.961
Fanaticism religion 248
Fancy
mental faculties 155.1
pigeons **636.5961**
Fancywork 746
Fanning agriculture 631.3622
mills engineering 621.63
Fans blowing engins 621.63
mining engineering 622.44
revolving 648.7
toilet 391.7
ventilation 697.9
winnowing 631.3621
Fantails pigeons 636.59621
Fantasia music 786.42
Fantom circuits tel. lines 621.38295
Fantoms occultism 133.3
Faraday tubes prac. ch. 542.79
Faradization elec. medicin 615.84
Farces amusements 792
[5] **Eng. drama** **822**
Farewell sermons 252.9
Farina, S. Ital. fiction 853.86
Farina milk products 637.144
Farinaceous foods
domestic economy 641.13
Farm **631**
houses agriculture 631.21
architecture 728.67
laying out 631.12
machinery agric. **631.3**
produce economics 338.1
purchase 631.112
selection **631.11**
sewage san. engin'g 628.37
types **631.14**
Farmacy
economic botany 531.63
practical materia med. 615.4
Farmer as owner 631.1151
renter 631.113
Farmers
general finance 336.19
institutes 630.715
occupation hygiene 613.64
wives clubs 640.714
Farming agriculture **630**
profits pol. econ. 338.1
Farmstead **631**
Farmyard manures 631.86
Faro amusements 795
ethics 175.5
Faroe iland sheep 636.372
[1] **ilands history** **949.1**
[4]Faroese language 439.6
[5] literature 839.6
Farquhar, G: Eng. drama 822.48
Farrer Catalan poetry 849.9134
Farriery horse shoeing 682.1
vet. medicin 619.1
[1]**Farther India history** **959**
Fascia dentata hippocampi 611.81314
Fasciae anatomy **611.74**
diseases of 616.75
Fascination animals 591.57
Fashion customs **390**
magazines 646.05
Fashionable educ. of women 376.4
Fashions costume **391**
dom. econ. 646.01
Fast-day cookery 641.566
sermons 252.6
Fastening tools mech. eng. 621.97
Fastenings arch. constr. 721.88
mech. eng. **621.88**
Fasti, Roman 529.3
Fasting asceticism 248
hygiene 613.24
temperance 178.9
Fasts Anglican church 264.031
Fat disease 616.39
in food and tissues phys. 612.3977
lactic secretions " 612.66433
milk composition 637.1271
production physiol. 612.3522
Fata Morgana mirage 535.3
Fatalism natural theol. 214
Fathers duties 173.5
of the church hist. 270.1
lives 922.1
works 281.1
Fatigue
muscular physiol. **612.74421**
nerv physiologic morfol. 612.82253

Fatigue
nerv-muscle physiol. 612.8166
of cells " 612.01432
school hygiene 371.71
strength of materials 620.1123
Fats
absorption
by skin physiol. 612.7912
in intestin " 612.33273
stomach " 612.32273
adulterations 614.313
animal chem. technol. 665.2
chemistry of food 641.14
digestion
in intestin physiol. 612.3323
stomach " 612.3223
in milk " 612.66413
nutrition 612.397
organic chemistry 547
physiology 612.397
protectiv exter. agents 615.776
tryptic digestion 612.3423
vegetable chem. tech. 665.3
Fattaild sheep
African 636.386
Asiatic 636.385
Italian 636.35
Southeast Europe 636.373
Fattening animals zootech. 636.08455
Fatty substances in blood 612.123
Fauces anatomy 611.32
diseases of 616.31
Faucial tonsils anatomy 611.323
Faults structural geol. 551.87
theory of min. eng. 622.16
Fauna zoology 591.9
Faure accumulators eng. 621.3553
Faust legend legends 398.2
Faverolles poultry 636.545
Favorits, royal biog. 923.9
Favors school rewards 371.53
[1]Fayette co. Ill. history 977.3797
travels 917.73797
[1] Ind. history 977.262
[1] Ia. " 977.735
[1] O. " 977.181
[1] Pa. " 974.884
[1] W.Va. " 975.471
Fear physiol. psychol. 612.82133
psychology 157
Feasts Anglican church 264.031
Rom. cath. " 264.021
social customs 394.1
Feathers, *see* Fethers
Features of surface moon 523.34
sun 523.74
Febler Catalan poetry 849.9112
Fecal secretion phys. zool. 591.149
Feces physiology 612.361
Fecundation
botany 581.166
embryology 611.0132
physiologic zoology 591.166
physiology 612.613
Fecundity physiology 612.663
Federal gov't polit. sci. 321.8
party Am. politics 329.1
state pol. sci. 321.021
Federalism polit. science 321.8
Federalists U. S. history 973.4
Federation, imperial Brit. 354.4201
pol. sci. 321.021
Feeble-minded
asylums for 362.3
architecture 725.53
childstudy 136.762
education of 371.92
mental derangements 132.2
Feed mills architecture 725.47
Feeder
electric traction 621.33217
panels elec. eng. 621.31724
Feeding
boiler steam eng. 621.1942
of animals animal hyg. 614.95
zootechny 636.084
school children 371.716
Feedwater appliances 621.1972
boiler 621.1943
[1]Feejee ilands history 996.1
Feelings emotions 157
Fees
bilding 692.8
gratuities 331.238
legislativ employees 328.3626
membership library 021.97
nonresident tuition 379.13
professional 331.27
readers lib. econ. 024.2
teachers 371.162
tuition education 371.22
Feet, artificial surgery 617.58
care hygiene 613.49
zootechny 636.0834
costumes 391.4
[3] English prosody 426.3
human anatomy 611.986
weights and mesures 389

Feijóoy Montenegro, B. J.
Spanish misc. 868.41
Feitama, Sybrand Dut. lit. 839.3144
Feith, Rhijnvis Dut. fic. 839.3343
Felata ethnology 572.9662
Sudan travel 916.62
Feldspar econ. geol. 553.69
mineralogy 549.61
Fellenberg's system educa. 371.42
Fellowship, church 265.2
Fellowships colleges 378.33
Felons criminal law 343
Felsites lithology 552.27
Felt roofing 695.7
Female
colleges education 376.8
education 376
customs 396.4
employments 396.5
functions of generation 612.62
labor polit. economy 331.4
seminaries 376.9
servants dom. economy 647.23
sex duties 173
suffrage 324.3
Females
adult zootechny 636.08232
young " 636.08238
Feminization of teach. force 371.18
Femoral
adductors anatomy 611.73824
artery " 611.13783
biceps " 611.73827
glands " 611.4682
nerv " 611.8355
quadriceps " 611.73822
veins " 611.1473
Femorotibial ligament anat. 611.72831
Femur anat. 611.7184
Fences
agriculture 631.27
law 347.2
railway equipment 625.18
Fencing amusements 796
school hygiene 371.734
Fenian invasion of Canada
Canadian history 971.048
U. S. history 973.81
Fenianism Irish history 941.5
polit. assoc. 363
Fenix folklore 398.4
Fenollar, B. Catalan poet. 849.9132
Fenomena
in labor obstetrics 618.43
nutritiv physiology 612.39
vital biology 577
Fens physical geol. 551.49
public helth 614.772
Ferdinand 1 German hist. 943.032
2 " " 943.042
3 " " 943.043
6 Span. " 946.056
7 " " 946.07
and Isabella 946.03
[1]Ferghana, Turkestan " 958.7
Ferguson, E.. Am. poetry 811.16
[1]Fermanagh, Ireland hist. 941.68
Fermentation
chemic technology 663.1
effect of barometric press. 612.276
lactic physiology 612.66417
yeast, etc. 589.9
Fermented
beverages adulterations 614.341
chem. tech. 663.1
temperance 178
milk dairy 637.146
Ferments
aids to digestion 615.7342
fibrogenous physiology 612.11512
in blood " 612.128
liver " 612.35111
materia medica 615.35
milkcurdling physiol. 612.3216
physiologic chemistry 612.0151
soil 631.46
Ferneries horticulture 716.5
Ferns botany 587.3
paleontology 561.73
[1]Ferrara Italy history 945.4
Ferrari, P. Ital. drama 852.75
Ferrets zoology 599.7
zootechny 636.081113
Ferries state control 351.814
transportation 656
Ferrotype photografy 772
Ferry boats shipbilding 623.8234
bridges docks 627.3
Fertility fecundity 612.663
soil 631.45
Fertilization botany 581.16
zoology 591.166
Fertilizer distributors 631.333
experiments 631.88

Fertilizers
agriculture **631.8**
chemic technology 668.6
commercial air pollution 614.748
manufacture 668.6
from sewage 628.49
Fertilizing principles, loss of 631.814
Ferules, boiler steam eng. 621.18453
Fesant poultry 636.594
Fessenden, T: G. Am.satire 817.22
Festiv piano music 786.46
Festivals amusements 791
Anglican ch. 264.031
cathedral music 783.28
labor holidays 331.817
of song music 784.5
Fetal
appendages **embryol.** **611.0138**
pathol. of **618.34**
hepatic veins anatomy 611.1497
portal vein " 611.143
Fetherfooted fowls 636.572
Fethers birds 598.2
compar. anat. 611.787
zoology 591.49
dom. materials 646.17
zootechny 636.0884
Fetishism 299
Fetticus salad plants 635.57
Fetus
abnormalities of 618.53
deth and retention of 618.33
obstacles to expulsion of 618.52
physiologic zoology **591.3**
physiology of 612.647
Fetuses
coalescence of deform. 617.35
Feudal institutions 321.3
law 321.3
tenure law 347.2
Feudalism, age of Eur. hist. 940.17
political science 321.3
Feuillet, Octave Fr. fict. 843.83
Fever
animal heat 612.556
lung diseases 616.241
typhoid public helth 614.511
Fevers, eruptiv diseases 616.911
gen. works on path. **616.92**
Fezant poultry 636.594
Fezzan, Africa history 961.3
sheep 636.386
Fiber crops gathering 631.5565
Fibers
agriculture **633.5**
connectiv histology 611.01822
nerv **physiology** **612.81**
textil **dom. economy** **646.1**
Fibrillae physiol. of sight 612.84371
Fibrillar nerv struc. histol. 611.01882
Fibrin **physiol. of blood** **612.1151**
nutrition 612.398133
Fibrinogen physiology 612.11512
Fibrinogens nutrition 612.398132
Fibrinoplastic
ferments physiol. 612.11512
substances nutrition 612.398132
Fibrinoplastin **physiology** **612.1151**
Fibrous
coats of eye **anatomy** **611.841**
materials **agriculture** **633.5**
manufacture 677
tissue histology 611.01828
Fibula anatomy 611.7186
Fichte German philos. 193.3
idealism 141
Ficoidales **botany** **583.47**
Ficoideæ " 583.475
Fiction
American literature **813**
buying library econ. 025.216
English literature **823**
Great war 940.493
reading of 028.4
U. S. hist. civil war 973.793
revolution 973.393
war of 1812 973.5293
writing 808.3
Fictitious
characters, dictionary of 803
imprints 014
names **pseudonyms** **014**
titles of books 098
Fidelity ethics 177.3
Fief political science 321.3
Field
artillery mil. eng. 623.412
books engineering 620.8
cores elec. " 621.316
crops **633**
fortifications **mil. eng.** **623.1**
guns firing 623.551
hoe 631.3151
mounts **ordnance** **623.431**
of vision **physiology** **612.8436**
operations geodesy 526.25
geology 550.7

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Field
sports 796
work, triangulation geod. 526.3
Fielding, H: Eng. fiction 823.52
[1]Fife, Scotland history 941.33
Fife musical instruments 788.5
Fifth nerv anatomy 611.8315
physiology 612.8195
Fighting, animal 175.6
prize 175.6
vessels shipbilding 623.825
Figs agriculture 634.37
botany 583.962
Figure
human, in art art anat. 743
of earth astronomy 525.14
geodesy 526.1
windows arch. decor. 729.84
Figureheds carving 736
Figures
correlation of geometry 513.57
of hevenly bodies astron. 521.14
prosodv Eng. lang. 426.4
Gk " 486.4
Lat. " 476.4
other lang.
rhetoric 808
[1]Fiji ilands history 996.1
travel 919.61
Filament lamps elec. light. 621 326
Filangeri, G. Ital. essays 854.66
Files
letter lib. administrat. 025.156
literary methods 029.3
mechanical engin'g 621.924
newspaper lib. econ. 022.935
offis equipment 651
vertical library econ. 022.916
Filial duty ethics 173.6
Filibuster
exped. to Cuba U.S.hist. 973.64
Walker's " " 973.66
Mex. " 972.06
Filibustering piracy 910.4
Filibusters criminal law 343
Cuban history 972.91
Filicaja, V. da Ital. poetry 851.54
Filicinæ botany 587.3
Filing machines mech.eng. 621.924
Filioque controv. theology 231.3
Filipinos ethnology 572.9914
Fillets anatomy 611.8167
Filbert 634.54
Filling
teeth dentistry 617.67
fibers for agriculture 633.59
Fillmore, M. presidency of 973.64
Fills railway engin'g 625.12
Filter basins waterworks 628.16
presses sewage 628.343
Filters, feedwater engin'g 621.1972
Filth diseases pathology 616.93
pub. helth 614.51
Filtration
areas sewage 628.368
hygiene 613.35
industrial sanitation 628.545
practical chemistry 542.67
sewage 628.35
water supply 628.16
Fimbria anatomy 611.81314
Final causes metaphysics 124
clauses Gk syntax 485.4
Finale orchest. music 785.1
Finance
private political econ. 332
public " " 336
Finances butter business 637.216
cheese " 637.316
dairy 637.116
dom. economy 647.1
farm " 631.16
lib. " 025.11
local gov't 352.11
zootechny 636.0816
Financial
administration civ. serv. 351.71
lib. gov't 023.36
bills legislation 328.376
crises pol. economy 332
institutions " " 332
Financiers biografy 923.3
Finches birds 598.8
Finding latitude 525.41
at sea 527.1
longitude 525.46
at sea 527.2
merid. line astron. 522.31
time 529.7
at sea 527.3
[1]Findlay, O. history 977.1191
Fine arts 700
biografy of 927
Fines, capital and labor 331.1
imposition lib. econ. 024.63
remission " " 024.73

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Finger
alfabet, def and dumb 371.912
joints anatomy 611.7279
little, muscles of " 611.73776
prints anthropology 573.6
rings costumes 391.7
weeder 631.3154
Fingers anat. 611.977
extensors of " 611.73765
extra deformities 617.36
Finials roof decoration 721.56
Finishing painting 698.3
shop mfg plant 621.795
[1]Finistère, France history 944.11
Finite and infinit metaph. 125
differences calculus 517.6
[1]Finland, Russia history 947.1
travel 914.71
Finnish language 494
literature 894
Finno-Hungarian language 494
Fiorentino, G. Ital. fiction 853.22
Fire
alarm stations archit. 725.19
alarms signals 654.7
arms ordnance 623.4
small army equip. 355.82
manufacture 683
mil. engin'g 623.44
balls meteors 523.52
boats shipbilding 623.826
chemistry 541.39
clays econom. geol. 553.61
commission boats 623.826
departments administ. 352.3
engins mechan. eng. 621.68
protec. of life 614.846
escapes " " " 614.847
exits " " " 614.848
extinction automatic 614.844
chemic 614.845
local gov't 352.3
insurance 368.1
physics 536.46
worshipers 295
Firebox locomotiv boiler 621.1332
Fireless cookers dom. econ 643.338
cookery " " 641.588
Firemen fire dep'ts 352.3
Firenzuola, A. Ital. fiction 853.34
Fireplaces
artistic 749
domestic economy 644.15
heating 697.1
kitchen 643.331
Fireproof
bildings bilding 693.8
libraries 022.24
public helth 614.841
depositories architect. 725.24
piers and colums 721.36
Fireproofing bilding 693.8
Fires
agricultural hindrances 632.18
library lib. economy 022.26
local government 352.3
mines mining eng. 622.82
protection ag'st lib. econ. 022.25
of life 614.84
protectiv agriculture 632.115
state regulations 351.782
Firetube boilers engin'g 621.18425
Fireworks
chemic technology 662.1
destructiv mil. eng. 623.4543
illuminating " " 623.4544
Firing gunnery 623.55
boiler steam. eng. 621.1941
mechanism ordn. 623.4242
First cause metaphysics 122
editions rarities 094
[3] lessons in Eng. lang. 428.2
nerv anatomy 611.8311
physiology 612.8191
Fischart, J; Ger. satire 837.42
Fish
air pollution 614.741
as food dom. economy 641.392
hygiene 613.29
commission 639
boats 623.826
culture business 639.3
ded air pollution 614.763
diseases of 619.9
farms 631.146
fertilizers 631.844
fresh, inspection of 614.317
markets dom. econ. 641.4
preservation chem. tech. 664.9
preservd, inspection of 614.319
trade economics 338.3
Fisher, Ft, N. C.
capture U.S. civ. war 973.7383
expedition " " " 973.7375
naval hist. " " " 973.754–5
Fisheries
business 639.2
ownership polit. econ. 333.9
production " " 338.3
treaty, 1888 U.S.hist. 973.85

Fishermen's occupat. hyg. 613.64
Fishes paleontology 567
zoology 597
Fishing business 639.2
sports 799
Fishplates railroad engin'g 625.15
Fishtail burners chem. 542.44
Fishways fish culture 639.3
Fission physiol. zoology 591.165
Fistula surgery 617.23
Fistulas, intest. physiol. 612.3311
Fittings, library 022.9
ship 623.85
[1]Fiume history 943.94
Five Forks, Va. battle 973.7384
Fixt
ammunition ordnance 623.453
sm. arms 623.4553
furniture arch. decor. 729.9
location lib. economy 025.8
oils and acids mat. med. 615.34
tooth harrow 631.3131
Fixtures law 347.2
library 022.9
lighting dom. econ. 644.32
lib. bldgs 022.76
Flaccus, C.V. Lat. poetry 873.3
Flag day schools 371.365
etiquet 929.9
Flagellants monas. order 271.79
Flagellarieæ botany 584.41
Flagellata zoology 593.16
Flagellation relig. ascet. 248
Flageolet musical instr. 788.5
Flags college 378.28
Great war 940.463
heraldry 929.9
U. S. civ. war 973.763
Flails 631.3611
Flamande cattle 636.2451
Flamboyant architecture 723.54
Flamenca Provençal poet. 849.123
Flames physics 536.46
prac. chem. 542.5
Flaming arcs elec. light 621.3256
[1]Flanders history 949.3
travel 914.93
dray horse 636.1548
Flanging machinery 621.984
Flash boilers engin'g 621.18427
Flasks prac. chem. 542.231
Flat-bed irrigation sewage 628.363
Flatboats boatbilding 623.829
Flatheded borers pests 632.76
Flats architecture 728.2
housekeeping 647.92
Flattery ethics 177.3
Flaubert, G. Fr. fiction 843.84
Flavoring plants field crops 633.82
garden " 635.7
Flax agriculture 633.52
domestic economy 646.12
harvesting 631.5565
harvesters 631.3565
manufacture 677
Fleas animal parasites 616.9681
economic zoology 591.69
insects 595.77
pests 632.77
Fleets naval engin'g 623.8
science 359
cattle 636.2451
draft horse 636.1548
language 439.3
[5] **literature 839.3**
Flemish painting 759.9
sheep 636.3317
Flemming, P. Ger. poetry 831.52
Fletcher, G. & P. Eng. poet. 821.37
J: " dram. 822.35
Fleur de lis heraldry 929.6
Flexible
bridges engineering 624.52
shafting 621.8235
Flexor
accessorius anatomy 611.7389
carpi ulnaris " 611.73753
digiti quinti brevis anat. 611.7389
digitorum longus " 611.73858
profund. " 611.73755
sublimis " 611.73754
hallucis brevis " 611.7389
longus " 611.73859
pollicis " " 611.73756
Flexors of forearm " 611.7375
thum, short " 611.73773
Flexure
engineering tests 620.11244
sigmoid anatomy 611.349
transit instrum. astron. 522.38
Flies insects 595.77
pests agric. 632.77
zoology 591.65
public helth 614.43
artificial fishing 799
horse econom. zoology 591.69
house domestic econ. 648.7

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Flight comp. physiol. 612.768
of birds migration 591.52
[1]Flint, Wales history 942.93
Flint chips early stone age 571.15
implements late " " 571.24
wepons war customs 399
Floaters steam engin'g 621.18472
Floating
batteries naval eng. 623.9
bodies physics 532.3
bridges engineering 624.87
det finance 336.32
docks shipbilding 623.83
schools 371.392
wheels water motors 621.235
Flock
books zootechny 636.0822
character of " 636.0821
composition of " 636.0823
Flogging in navy 359
punishments 343.2
school punishments 371.55
Flood gates hyd. mach. 621.29
Flooding of mines 622.84
Floods agriculture 632.17
meteorology 551.57
protection against 627.4
Floor coverings dom. econ. 645.1
lib. " 022.96
systems bridgebilding 624.25
Floors and flooring
architecture 721.6
bilding joinery 694.6
library stacks 022.435
mosaic arch. decoration 729.73
school bildings 371.633
Flora, geografic 581.9
Floral perfume plants 633.811
Flore and Blancheflor 398.2
[1]Florence, Italy history 945.5
[1] co. Wis. history 977.532
Florentine pigeons 636.59628
receivers chemistry 542.66
Florian, J. P. C. de Fr. fic. 843.58
Floriculture 635.9
landscape gardening 716.2
Florida
ship U. S. civil war 973.757
state admission 973.58
discovery 973.16
expedition 973.7364
French settlem't 973.18
[1] history 975.9
purchase 973.54
Florida
state secession 973.713
For military history of state, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
war 1835–42 U. S. hist. 973.571
Florideæ botany 589.41
Flotation shipbilding 623.81
Flour manufacture 679
mills architecture 725.47
Flow
in sewers 628.222
of blood physiol. 612.15
liquids physics 532.51
streams meteorology 551.57
Flower garden, landsc. gard. 716
Flowering
currant agriculture 634.724
plant growth " 631.5474
plants botany 582
Flowerless plants 586
Flowers
agriculture 635.9
botany 580
landscape gardening 716.2
language of 716.2
national 929.6
seasoning 635.71
[1]Floyd co. Ind. history 977.219
[1] Ia. " 977.726
Flues sewer ventilation 628.233
smoke heating 697.8
Fluid vein hydraulics 532.52
Fluids physics 532
preservativ biol. 579.2
refrigerating 621.564
Flukes parasitic diseases 616.963
Flumes water power 621.29
Fluor mineralogy 549.4
Fluorescence light 535.3
Fluorin inorganic chem. 546.16
mineralogy 549.4
Flushing shafts sewers 628.254
Flute musical instrum. 788.5
grafting agriculture 631.5415
Flutina music 786.9
Fluting irons dom. econ. 648.43
Fluxes metallurgy 669.8
Fluxions calculus 517
Fly, *see* Flies
Flycatcher birds 598.8

Flying
animal locomotion 591.47
fish zoology 597.5
grounds aeronautics 629.144
machines " 533.6
engineering 629.13
Focimeter lenses 535.81
Fodder, dry zootechny 636.08554
fresh " 636.08551
Foetal, foetus, *see* Fetal, fetus
Fog hygiene 613.14
meteorology 551.57
signals applied acous. 534.83
commerce 654.9
Fogazzaro, A. Ital. poetry 851.85
Föhn meteorology 551.51
[1]Foix, France history 944.88
Fokke, A. S. Dutch hum. 839.374
Folding
bridges engin'g 624.82
Folds geology 551.87
Folengo, Teofilo Ital. satire 857.31
Foliage botany 581.4
Folklore 398.3
Folksong folklore 398.8
music 784.4
Folkvisor Swed. poetry 839.7114
Follicles, see specific name
[1]Fond du Lac co. Wis. hist. 977.568
Fonoscribing shorthand 653.2
Font sacred furniture 247.1
Fontana's spaces anatomy 611.8415
Fontanelles " 611.7141
Fontanes, Louis Fr. poet 841.62
Fontenelle, B. le B. de 844.51
[1]Foochow history 951.2
travels 915.12
Food
acquisition physiol. zool. 591.131
adulterations pub. helth 614.31
animal chem. tech. 664.9
econ. zoology 591.63
cand adulterations 614.318
chemic analysis 543.1
technology 664
chemistry of dom. econ. 641.1
children's " " 649.3
constituents, inorganic 641.15
organic 641.11
cost zootechny 636.08171
cures therapeutics 615.854
digestion and nutrition 612.3
zoology 591.13
Food
domestic economy 641
hygiene 613.2
influence on respiration 612.224
inspection adulterations 614.31
of animals zoology 591.53
zootechny 636.085
dairy cows dairying 637.122
laboring classes 331.83
plants 581.13
physiology 612.392
preservation
animal chem. tech. 664.9
vegetable " " 664.8
preservd adulterations 614.318
stuffs dom. econ. 641.3
pol. " 338.1
values dom. " 641.1
vegetable econ. botany 581.63
zoology 591.53
Foods zootechny 636.086
adulterations " 636.0859
prepared " 636.0857
Fools customs 394.2
lives 926.8
mental derangem'ts 132.2
Foot
arteries anatomy 611.13793
ball amusements 797
bridges engin'g 624.12
[3] English prosody 426.3
human anatomy 611.986
lymphatics " 611.42186
mesures 389
muscles anatomy 611.7387
prints, fossil paleontol. 566
stools dom. econ. 645.41
warmers " " 644.19
wear clothing 646.46
Foote, S: Eng. drama 822.62
Footmen dom. servis 647.3
Forage crops foods 636.0852
grasses 633.2
legumes 633.3
Foramen interventriculare 611.8148
of Monro 611.8148
Foramina of metepicele 611.8185
Foraminifera zoology 593.12
Force
and energy statics 531.2
its mesure mechan. 531.21
centrifugal and centripet. 531.35
composition of mechan. 531.22

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Force
electric, storage of eng. 621.35
transmission " 621.319
physics 537.84
intermolecular physics 539.6
lines of magnetism 538.1
metaphysics 118
of water river eng'ng 627.1
parallel mechanics 531.24
pump pneumatics 533.84
transmission of millwork 621.8
physics 531.8
Forced alimentation hyg. 613.23
draft steam eng. 621.18385
feeding zootechny 636.08456
Forceps obstetrics 618.81
surg. instrum. 617.91
weeding 631.3154
Forcing
plant culture 631.544
houses plant protection 631.3445
Ford, J: Eng. drama 822.38
[1]Ford co. Ill. history 977.362
Forearm anat. 611.974
arteries " 611.1343
lymfatics " 611.4217
muscles " 611.73734
Forebrain " 611.813
Foreclosure law 347.2
Foreign, *see* Foren
Foreknowledge of God
doct. theol. 231.4
Foren
banks polit. econ. 332.15
bodies diseases 616.981
surgery 617.146
[3] elements Eng. language 422.4
enlistment ml. sci. 355.22
help dom. econ. 647.24
labor polit. econ. 331.6
law 349
missions 266
relations internat. law 341
polit. science 327
states administration 354
trade commerce 382
wars of U. S. mil. order 369.115
Forensic chemistry law 340.6
medicin " 340.6
Foreordination salvation 234.9
Foresight guns 623.4252
Forest cattle 636.221
[1] co. Pa. history 974.868
[1] Wis. " 977.531
trees botany 582
Forestry agriculture 634.9
landsc. gard. 715
Forests meteorology 551.58
ownership 333.7
reclamation 631.614
state control 351.823
[1]Forfar, Scotland history 941.31
Forge bellows 533.87
shop eng. works 621.73
Forgemen's occupation hyg. 613.64
Forgery academic degrees 378.26
law 343
polit. economy 332.9
Forging blacksmithing 682
machinery, hyd. 621.266
Forgivness of sin theology 234
Forking tillage 631.511
Forks, digging 631.3114
hay 631.3535
tuning acoustics 534.3
weeding 631.3154
Form
books law 347.93
influence on respiration 612.2291
musical 781.5
of embryo embryology 611.0137
legislature pol. sci. 328.39
state " " 321
ontology 111
Formaldehyde chemistry 547.5
disinfect. 614.484
Format printing 655.53
Formatio reticularis anat. 611.8226
Formation
of character 374
crystals crystallog. 548.5
stock zootechny 636.082
[1]Formosa history 951.2
Forms
elementary arch. design 729.3
library printing 025.121
of suffrage 324.2
strength of materials 620.1128
Formulae
exponential trigonom. 514.3
L. M. Z. geodesy 526.46
recipes, see special subj.
theoretic chemistry 541.9
Formularies materia med. 615.13
Fornication crim. law 343
Fornix anatomy 611.8139
[1]Fort Dearborn massacre 977.31
[1] Dodge, Ia. history 977.7511
[1] Wayne, Ind. " 977.274
Forteguerri, N. Ital. satire 857.58

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Fortifications mil. eng. 623.1
Fortress
artillery " " 623.416
guns gunnery 623.553
mounts ordnance 623.433
Forts, special mil. eng. 623.19
systems of " " 623.13
Fortune-telling 133
Foscolo, U. Ital. poetry 851.66
Fossil resins econ. geol. 553.29
Fossils 560
geografic distribution 560.9
man 569.9
antiqui. of man 573.3
Fotoplays
amusements 792
censorship ethics 175.2
fotografy 778
scenario writing 808.2
Fototelegrafy
signals 654.9
telegrafy 621.3827
Foucault's pendulum 525.36
Foulahs ethnology 572.9662
Sudan, trav. 916.62
Foundation
bed bridge engineering 624.151
roadmaking 625.73
Foundations
architec. construction 721.1
boiler steam engin'g 621.18457
bridge engin'g 624.15
electric lines 621.319223
Founders and patriots of America, order of 369.125
Founding of libraries 021.6
type printing 655.21
Foundling asylums arch. 725.58
sociology 362.7
Foundries architecture 725.43
engin'g works 621.74
metal manufac. 671
[1]Fountain co. Ind. history 977.247
Fountains landsc. gard. 714
Fouqué, La Motte Ger.fic. 833.65
Four-wire electric systems 621.3191324
Fourierism communism 335.3
Fourth dimension geom. 513.8
nerv anatomy 611.8314
physiol. 612.8194
of July schools 371.365
U. S. hist. 973.361
Fowling sport 799
Fowls domestic animals 636.5
Fox, C: J. Eng. oratory 825.63
Foxes zoology 599.7
Foxhunting amusements 799
Fractional currency, money 332.41
Fractions algebra 512.4
arithmetic 511.4
Fractures surgery 617.15
Frames artistic furniture 749
Framing carpentry 694.2
shipbilding 623.84
France
administration 354.44
antiquities 913.44
architecture 720.944
botany 581.944
colleges 378.44
constitutional law 342.44
education 370.944
finance 336.44
geology 554.4
heraldry 929.6
[1] **history 944**
language 440
laws 349.44
literature 840
local government 352.044
maps 912.44
peerages 929.741
religious history 274.4
schools, public 379.44
statistics 314.4
titles of honor 929.74
travel 914.4
treaties 341.244
troubles with U. S.
Fr. hist. 944.046
U. S. " 973.45
zoology 591.944
other topics see table 1
[1]Franche Comté, Fr. hist. 944.45
Franchise, elec. pol. sci. 324
Francis 1 Fr. history 944.028
2 " " 944.029
Francis 1 Ger. history 943.055
2 " " 943.06
Franciscan monks 271.3
sisterhood 271.973
Franco-German war
French hist. 944.08
German " 943.082
Franconia
house of German hist. 943.023
[1] Lower " " 943.33
" trav. 914.333

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Franconia
[1] Middle German hist. 943.32
" trav. 914.332
[1] Upper " hist. 943.31
" trav. 914.331
Franconian sheep 636.3333
swine 636.431
Frankeniaceæ botany 583.151
Frankenschaf 636.3333
[1]Frankfort history 943.58
travels 914.358
Franking privilege
legislativ prerogativs 328.237
library aid 021.862
post offis 383
Frankish emperors It. hist. 945.02
Franklin, Tenn. battle
U.S.civ.war 973.7379
[1] co. Ill. history 977.394
travels 917.7394
[1] Ind. history 977.215
[1] Ia. " 977.728
[1] Me. " 974.17
[1] Mass. " 974.42
[1] Mo. " 977.863
[1] N. Y. " 974.755
[1] O. " 977.156
[1]Franklin, co. Pa. history 974.844
[1] Vt. " 974.31
[1] ter. Can. " 971.29
Franks " 943.01
Franzén, F.M. Swed.poetry 839.7158
Fraud electoral suffrage 324.27
law 347.5
Frauds
art history 709
fertilizers 631.818
literary history 809
Fraudulent
conveyances law 347.7
counting elections 324.275
elections U. S. 324.73
voting suffrage 324.272
Fraunhofer's lines spectro. 535.84
Freckles dermatology 616.55
Frederick new Ger. empire 943.084
1 Ger. history 943.024
2 " " 943.025
3 " " 943.028
[1]Frederick city, Md. hist. 975.288
[1] co. Md. " 975.287
Fredericksburg, Va.
U. S. civ. war 973.7339
Free
agency doctrinal theol. 234.9
baptists sects 286.2
church of Scotland sects 285.6
cities Ger. government 354.4309
Ital. history 945.04
coinage of silver 332.41
hand drawing 741
importation lib. aid 021.861
institutions
love ethics 173.1
news and reading rooms 027.9
postage library aid 021.862
public libraries 027.4
religion 211
school system education 379.1
soil party polit. party 329.6
U. S. history 973.61
speech polit. science 323.443
thinkers biografy 922.9
thought eccles. polity 262.8
rationalism 211
trade and protection 337
use of libraries 024.28
will metaphysics 123
psychology 159
theology 234.9
Freebooters crim. law 343
Freedmen
education of 371.974
in U. S. army U. S. hist. 973.7415
slavery 326.8
Freedmen's bureau 361
Freedom
and emancipation
slavery 326.8
U.S. hist. 973.714
metaphysics 123
of labor strikes 331.891
theory 331.011
man doct. theol. 233.7
press censorship 323.445
journalism 070.13
public order 351.751
speech 323.443
teaching education 378.121
pol. sci. 323.444
personal pol. sci. 323.44
political liberty 323.4
religious eccles. polity 262.8
salvation 234.9
Freehold land societies 334.1
law 347.2
Freeman's farm Am. rev. 973.3333

Freemasonry 366.1
[1]Freeport, Ill. history 977.333
Freewill baptists 286.2
Freezing
agricultural hindrances 632.11
artificial ice machines 621.58
food preservation 641.4
mixtures refrigeration 621.564
physics 536.43
process foundations 624.157
waterworks 628.15
Freight
boats shipbilding 623.824
cars railway engin'g 625.24
elevators lib. bldgs 022.9572
mech. eng. 621.87772
ferryboats shipbilding 623.8234
houses, R. R. architec. 725.32
interstate commerce 385
locomotivs steam eng. 621.13262
transportation 656
Freiligrath, F. Ger. poetry 831.78
Fremont in California
U.S. war with Mex. 973.6232
[1]Fremont co. Ia. history 977.777
French
allies U. S. hist. 973.324
and Indian war Can. hist. 971.018
U. S " 973.26
Canadian cattle 636.2832
cattle 636.24
cheese, hard 637.3544
soft 637.3534
church, Gallican 282.44
coach horse 636.144
[1] Cochin China history 959.7
travels 915.97
[1] Congo history 967.2
cuckoo 636.547
discovery of America 973.18
draft horse 636.154
ducks 636.5974
encyclopedists apologet. 239.6
goats 636.394
goose 636.5984
[1] Guiana history 988
travels 918.8
horn wind instrum. 788.41
[1] Kongo history 967.2
[4] **language 440**
[5] **literature 840**
merinos 636.3674
old language 447.01
opera dramat. music 782.4
French
painting 759.4
Perigord swine 636.445
philosofers biografy 921.4
philosofy 194
polish chem. tech. 667.7
poultry 636.54
protestants, persecut. of 272.4
régime Can. hist. 971.01
republic, 1st history 944.042
2d " 944.07
3d " 944.08
revolution " 944.04
Romanesque architec. 723.44
roofs arch. construc. 721.5
sculpture 735
sheep 636.34
spinach 635.43
spoliations U. S. hist. 973.45
swine 636.44
turnip 635.127
wars, early 973.25
Freneau, Philip Am. poet. 811.24
Frequency
converters elec. eng. 621.31355
asynch. " " 621.31367
synchr. " " 621.31353
meters elec. " 621.3747
of hart beats physiol. 612.1722
sessions legislativ bodies 328.353
respiratory physiology 612.216
Fresco painting
bilding 698.2
interior decoration 747
library bildings 022.344
painting 750
sacred ornaments 247.5
school bildings 371.636
Frese, Jacob Swed. poetry 839.7137
Fresh-air mission 361
Freshets meteorology 551.57
Fresnel lens lighthouses 627.9
[1]Fresno city, Cal. hist. 979.483
[1] co. " " 979.482
Fretwork 747
Freytag, G. Ger. fiction 833.82
Frezzi, F. Ital. poetry 851.21
Friars monastic orders 271
Friction
clutches mech. eng. 621.825
gearing " " 621.858
mechanical engineering 621.89
of gears mech. eng. 621.832
physics 531.4
Frictional electricity 537.2

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Friedreich's disease 616.83
[1]Friendly ilands history 996.1
societies 334.7
Friends, society of sects 289.6
Friendship ethics 177.6
Friesian cattle, Dutch 636.2351
East 636.2343
Holstein 636.2342
sheep 636.3314
[1]Friesland history 949.2
travels 914.92
Friezes, carvd arch. decor. 729.56
painted " " 729.46
Frightfulness Great war 940.405
Frigid zone agriculture 631.0911
clothing 646.091
cookery 641.591
Frilbacks pigeons 636.59624
[4]Frisian language 439.2
[5] literature 839.2
Frizzles poultry 636.5884
Fröbel's system educat. 372.2
Frobisher, M. discov. of Am. 973.17
Frogs culture 639.3
zoology 597.8
Frolic, ship U.S.war 1812 973.5251
Fronde French hist. 944.033
Frontal bone anat. 611.7155
lobes of brain " 611.81311
[1]Frontenac co. Ont. hist. 971.371
Frontiers polit. science 320.128
Fronto, M. C. Lat. letters 876.3
Frost action geology 551.91
bites skin disord. 616.58
blight agriculture 632.11
meteorology 551.52
Froude's tests shipbilding 623.83
Fructification botany 581.16
Fructose nutrition 612.39613
Frugoni, C. I. Ital. poetry 851.57
Fruit culture 634
drinks adulterations 614.346
dom. econ. 641.87
hygiene 613.36
farms 631.143
gatherers 631.3581
gathering 631.5561
markets dom. econ. 641.4
trade economics 338.1
walls agriculture 631.3454
Fruitage plant culture 631.5475
Fruits 634
and seeds agriculture 634
organografy 581.76
Fruits
as food dom. econ. 641.13
hygiene 613.27
physiology 612.39272
fresh, inspection of 614.316
preservation chem. tech. 664.8
preservd, inspection of 614.318
zootechny 636.0874
Frying cookery 641.77
Fryxell, A. Swed. misc. 839.7863
Fuel
artificial chem. tech. 662.8
chemic technology 662.6
conveyors steam eng. 621.18378
domestic economy 644.2
metallurgy 669.8
ships shipbilding 623.826
steam engineering 621.182
Fuels
intern. combust. engins 621.434
special, cookery with 641.58
steam locomotivs 621.1331
Fugitiv
slave law U. S. hist. 973.64
" slavery 326.973
slaves, causes " civ. war 973.7115
Fugitivs from justis extrad. 341.4
Fugue music 786.82
Fulahs ethnology 572.9662
Sudan, trav. 916.62
Full development, period of 612.66
Fuller, Margaret Am. lit. 814.31
Fulminating powders 662.4
[1]Fulton co. Ill. history 977.348
travels 917.7348
1 Ind. history 977.287
1 N. Y. " 974.747
1 O. " 977.1115
1 Pa. " 974.872
Fumes
agricultural hindrances 632.19
prevention in factories 628.511
Fumigating apparatus
contag. diseases 614.481
Fumigation agriculture 632.94
Functional
diseases of brain and cord 616.84
women 618.17
equations 517
Functions
Bessel's, etc. calculus 517.35
calculus of 517.5
nervous physiology 612.8

Functions
of generation female 612.62
male 612.61
motor apparatus 612.7
skin physiol. 612.79
symmetric algebra 512.84
trigonometric 514.1
Fund, wage polit. econ. 331.212
Funding system finance 336.31
Funds
invested lib. finance 025.111
lib. subj. apportionment 025.211
public 336
student loans 378.362
Funeral
directors 393.9
rites customs 393
religions ordin. 265.8
sermons 252.9
Fungi
botany 589.2
pests agriculture 632.4
vegetables " 635.8
Funicular engins, hydraulic 621.262
railways 625.32
Funis, prolapsus obstetrics 618.58
Funnels chem. appar. 542.231
decant'g " " 542.66
Fur dom. economy 646.16
trade pol. econ. 338.1
Furetière, A. Fr. satire 847.45
Furlo, military 355.11
Furnaceman dom. econ. 647.25
Furnaces
coal prac. chem. 542.42
electric " " 542.47
gas " " 542.44
house warming 697.3
metallurgy 669.8
mining ventilation 622.43
steam engineering 621.183
ventilation of sewers 628.236
Furnishings, see qualifying word
Furniture
domestic economy 645
ecclesiastic 247
factories architecture 725.44
fixt arch. decoration 729.9
library economy 022.9
manufacture 684
offis equipment 651
school 371.631
ship equipment 623.86
Furrow sowers 631.3315
Furs clothing 646.16
Fuses, *see* Fuzes
Fusion-point physics 536.42
thermochem. 541.36
Future
events probabilities 519.4
judgment doctr. theol. 236.9
life natural " 218
of libraries 021.03
punishment doctr. theol. 237.6
Future
state doctrinal theol. 237
Fuzes
electric stations 621.3178
explosivs 662.4
local electric lighting 621.3284
military engineering 623.4541
Fylfot ecclesiology 246.5
heraldry 929.6

G. A. R. associations 369.151
Gabbro plutonic rocks 552.34
Gabelsberger shorthand 653.33
Gabionades mil. eng. 623.24
Gables arch. construc. 721.28
design 729.37
roofs 721.58
[4]Gadhelic language 491.61
Gadolinium chemistry 546.694
Gadsden purchase U.S. hist. 973.66
[4]Gaelic language 491.63
Gaetulia ancient history 939.77
Gage
cocks locomotiv boilers 621.1339
glasses steam eng. 621.18472
Gages, comprest air 621.532
steam power plant 621.1977
Gaging arithmetic 511.8
mesures 389
Galactin milk composition 637.1272
Galactometer dairy 637.1276
Galactophorus ducts anat. 611.693
Galactose nutrition 612.39613
Galatia ancient history 939.32
Galatians Bible 227.4
Galegae legume crops 633.375
Galena econ. geology 553.44
metallurgy 669.4
Gales meteorology 551.51
[1]Galicia, Austria history 943.74
[1] Spain " 946.1
Galilei, G. Ital. essays 854.52
Gall
bladder anatomy 611.366
diseases of 616.36
physiology 612.35771
ducts, *see* Bile ducts
flies agric. pests 632.79
formation secretions 591.145
Gallantry ethics 177.1
[1]Gallatin co. Ill. history 977.397
Galleries
and libraries 021.48
art 708
architecture 727.7
library bildings 022.656
library shelving 022.423
shooting architecture 725.89
Gallery
study tables lib. bldgs 022.52
Galley outfit shipbilding 623.86
Galleys criminal law 343.2
shipbilding 623.8212
Gallia
Cisalpina ancient hist 937.2
[1] co. O. history 977.189
Gallican church 282.44
Gallium chemistry 546.68
Galloway cattle 636.2232
pony 636.1622
Gallows criminal law 343.2
Galls pests 632.2
Galt, John English fiction 823.77
Galvanic batteries
engineering 621.354
manipulation 542.8
physics 537.86
Galvanism 537.5
Galvanized iron manuf. 671
Galvanometers
electric engineering 621.3744
electrophysiology 612.01442186
physics 537.86
Galvanoplasty
electrometallurgy 537.85
manufactures 671
Galvanotropism
electrophysiology 612.014427
[1]Galway, Ireland history 941.74
Gambling
administration 351.762
ethics 174.6
of amusements 175.9
law 345
Game sport 799
bantams 636.58712
fowls 636.5881
laws hunting 799
preservs business 639.1
Games
amusements 790
championship sch. hyg. 371.75
children's dom. econ. 649.55
customs 394.3
ethics 175
Greek 913.38
hygiene 613.7
kindergarten 372.215
of chance amusements 795
ethics 175.5
skill amusements 794
ethics 175.4
Olympic Greek antiq. 913.38
Roman 913.37
room for lib. bldgs 022.663
school 371.74
table and parlor 793

Gaming, public state reg. 351.762
Gamopetalæ botany 583.5
Gang plow 631.3122
Ganglia
anatomy 611.89
cerebral physiology 612.826
comparativ " 612.829
of hart " 612.1783
sensory nervs 612.8113
sympathetic system 612.89
Gangliated cord anatomy 611.839
Ganglions, *see* Ganglia
Gangrene lung diseases 616.245
surgery 617.25
Ganoidei fishes 597.4
Gaols, *see* Prisons
Garages lib. bildings 022.687
private arch. 728.94
public " 725.38
Garbage sanitation 628.44
Garcia Catalan poetry 849.9137
[1]Gard, France history 944.83
Garden bean 635.652
cress 635.563
crops 635
zootechny 636.0875
currants 634.722
hoe 631.3151
parties dom. econ. 642.43
rakes 631.3156
spade, longhandled 631.3111
strawberry 634.751
tools, hand 631.315
Gardeners dom. econ. 647.3
Gardening elem. educ. 372.36
flower agriculture 635.9
art 716.2
kitchen 635
landscape 710
market 635
window 716.4
Gardens
botanic 580.7
architecture 727.5
public 711
school 372.36
zoologic 590.7
architecture 727.5
Gardianship law 347.6
Gards, axle railrd engin'g 625.21
Garfield, J. A. presidency of 973.84
Gargoyles arch. decor. 729.53
Garibaldi Italian history 945.09
Garlic 635.262
Garments
for special purposes 646.47
outdoor dom. econ. 646.45
outer house " " 646.43
under " " 646.42
Garnier, Robert Fr. dram. 842.37
Garnishee law 347.7
Garnishes 635.78
Garnitures
dress dom. econ. 646.48
table " " 642.8
[1]Garrett co. Md. history 975.297
Garrick, D: Eng. drama 822.61
Garter, order of heraldry 929.714
Garters hygiene 613.484
Garth, S: English satire 827.48
Gärtner's duct anatomy 611.6676
Gas
accumulators elec. eng. 621.357
aeronautics 629.161
as kitchen fuel 643.334
checks ordnance 623.4243
coal heating 697.6
compression prac. chem. 542.78
cooking by 641.584
dissolving prac. chem. 542.74
domestic fuel 644.24
driven electric plants 621.312133
engins agriculture 631.3716
engineering 621.4
physics 536.82
exchange respiration 612.22
in blood " 612.23
fitting plumbing 696.2
fuel chem. tech. 662.6
generation prac. chem. 542.72
heating bilding 697.6
prac. chem. 542.44
illuminating air pollut. 614.723
inspect. of 614.835
light dom. econ. 644.313
lib. " 022.752
liquefaction prac. chem. 542.79
manipulation " " 542.7
manufacture 665.7
mesuring prac. chem. 542.76
meters " " 542.76
natural econ. geology 553.28
heating 697.6
production prac. chem. 542.72
rarefaction prac. chem. 542.77
sewer air pollution 614.765
sanitary eng. 628.23

Gas
solidification prac. chem. 542.79
storage " " 542.75
stoves, kitchen equipm't 643.334
suffocation by prot. of life 614.82
turbins engin'g 621.433
washing prac. chem. 542.74
water heating 697.6
wells economic geology 553.28
works air pollution 614.723
Gascoigne, G: Eng. satire 827.31
Gascon sheep 636.3464
swine 636.445
[1]Gasconade co. Mo. history 977.861
[1]Gascony, France history 944.77
Gaseous
fuels steam engin'g 621.18224
state chemistry 541.33
Gases
absorption by skin 612.7915
agricultural hindrances 632.19
blood physiology 612.127
chemic technology 665
effect on books 025.8
illuminating air pollution 614.723
in mines 622.41
inhalation hyg. of employ. 613.62
intestinal physiology 612.3317
muscle physiology 612.74417
noxious air pollution 614.72
of urin physiology 612.46164
pneumatics 533
qualitativ analysis 544.4
quantitativ analysis 545.7
respiratory exchange 612.22
soil physics 631.433
volume of chemistry 541.2
volumetric analysis 545.7
Gasoline engins 621.43
plow 631.3123
vehicles 629.2
tractors agric. 631.3722
Gasometers prac. chem. 542.75
Gaspé, burning Am. revol. 973.3112
[1] co. Que. history 971.479
Gassenay goat 636.3939
Gasserian ganglion 611.8915
Gasteromycetes botany 589.221
Gasteropoda zoology 594.3
Gastric
artery anat. 611.13643
branches of vagus " 611.831919
fistulas physiology 612.3211
Gastric
glands anatomy 611.33
juice stomach 612.32
with pancreatic 612.34251
nervs anatomy 611.8393
secretions physiol. zool. 591.143
vein anatomy 611.1493
Gastritis diseases 616.33
Gastro-
colic omentum anat. 611.382
duodenal artery " 611.13641
epiploic " left " 611.13642
right " 611.13641
nervs " 611.8393
hepatic omentum " 611.382
splenic " " 611.382
Gastrocnemius muscle " 611.73853
Gastronomy cookery 641.01
Gastropoda zoology 594.3
Gastrotomy surgery 617.55
Gastrula embryology 611.01332
[1]Gates co. Wis. history 977.519
Gates
architectural construc. 721.8
railway equipment 625.18
Gatherers, hay 631.3532
stone 631.3117
Gatling guns mil. eng. 623.42242
Gauge, *see* Gage
Gauging, *see* Gaging
[1]Gaul history 944
[1]Gauley valley, W. Va. hist. 975.468
Gaur domestic animals 636.2972
Gauss's theory magnetism 538.1
Gautama Buddhism 294
Gautier, Théophile Fr. fict. 843.77
Gauze, wire prac. chem. 542.46
Gay, John Eng. drama 822.56
Gayal domestic animals 636.2972
Gayangos, Pascual de
Spanish miscellany 868.51
Gazetteers 910.3
special country, see country 914–919
Gearing mill engin'g 621.85
Gears, tootht " " 621.83
valv " " 621.84
steam engins 621.1342
Geary exclusion act U.S. hist 973.86
[1]Geauga co. O. history 977.1336
Geese hunting 799
poultry 636.598
zoology 598.4
Gehenna doctrinal theol. 237.5
Geibel, E. German poetry 831.83

Geiger, E. G. Swed. misc. 839.7861
Geissler's tubes electricity 537.53
Gelatin manufacture 668.3
processes photo. 773
Gelatinosa anatomy 611.8224
Gelatinosæ botany 589.18
Gelatinous liquids chem. 541.325
Gelding zootechny 636.08234
Gellert, C. F. Ger. poetry 831.61
Gelli, G. Italian essays 854.37
Gem engraving 736
Gemara Judaism 296
Gemelli muscles anat. 611.73818
Gemignano, F. da San 857.11
Gemini muscles anat. 611.73818
Gemmation zoology 591.165
Gems economic geology 553.8
engraved 736
mineralogy 549
Gender Eng. language 422.5
Fr. " 442.5
Lat. " 472.5
[3] other languages
Geneagenesis zoology 591.162
Genealogy 929
General
average law 347.7
council eccles. polity 262.5
religious history. 270.2
secretary Y. M. C. A. 267.341
ticket suffrage 324.222
Generalization logic 161
Generals, lives of 923.5
Generation
botany 581.16
of electricity 621.31
physiology 612.6
spontaneous biology 576.1
physiology 612.601
steam 621.18
zoology 591.16
zootechny 636.08245
Genet domestic animals 636.183
Generativ
functions, female 612.62
male 612.61
organs anatomy 611.6
comp. anat. 591.46
descrip. anat. 591.76
male func. dis. 616.69
Generator panels el. eng. 621.31722
Generators
altern. current " " 621.31343
charging telefony 621.38763
direct current elec. eng. 621.31323
double " " " 621.31356
induction " " 621.31363
ringing telefony 621.38764
voltaic engineering 621.35
[1]Genesee co. Mich. history 977.437
[1] N. Y. " 974.792
Genesis Bible 222.11
Geneva
award U. S. history 973.82
confession creeds 238.4
[1] history 949.4
travels 914.94
tribunal internat. law 341.6
Geniculate
bodies anatomy 611.8146
ganglion " 611.8917
Geniculum " 611.8146
Genii folklore 398.4
Geniohyoid muscles 611.7348
Genital
plexus anatomy 611.8359
tract, rupture of obstet. 618.55
see also Generativ
Genitiv case Gk syntax 485.5
Lat. " 475.5
[3] other languages
Genito-
crural nerv anat. 611.83543
femoral " " 611.83543
urinary system anat. 611.6
pathol. 616.6
surgery 617.46
therap. 615.76
Genius 151.1
hereditary 136.3
[1]Genoa, Italy history 945.1
travels 914.51
Genre painting 754
Gentianales botany 583.7
Gentianeæ " 583.75
Gentlemen curtesy 177.1
Gentleness ethics 179.9
[1]Gentry co. Mo. history 977.8145
Geocentric place 521.2
Geochemistry geology 551.94
Geodesy 526
Geognosy 551

Geografic
basis of pol. sci. 320.124
coordinates **525.4**
discovery history of 910.9
distribution agriculture 631.09
animals **591.9**
fossils **560.9**
of contag. diseases 614.42
plants **581.9**
names 929.4
variation animals 591.152
plants 581.152
Geografy
ancient **912.3**
Biblical 220.91
commercial 380
descriptiv **910**
elementary education 372.89
historic **911**
maps **912**
military 355.47
physical **551.4**
political **910**
see also Boundaries
Geoidal figure of earth 526.17
Geologic reports **550**
surveys **554–559**
time 550.1
Geologists biografy 925.5
Geology **550**
agricultural **631.4**
and religion apologet. 239.8
applied mining eng. 622.11
dynamic **551**
natural theology 215
speculativ 550.1
Geomancy divination 133.3
Geometric
drawing math. drawing 744
forms decoration, painted 729.44
relief 729.54
windows arch. decora. 729.81
Geometricians biografy 925.1
Geometry **513**
analytic **516**
descriptiv **515**
Geomorfology geol. **551.3**
Geomorfy 525.14
George 1 English history 942.071
2 " " 942.072
3 " " 942.073
4 " " 942.074
5 " " 942.083
George Ft, U.S.war 1812 973.5235
George
[1] lake, N. Y. history 974.751
travels 917.4751
George's, King, war, U.S.hist. 973.26
Georgia
[1] Asia, history 947.9
travel 914.79
[1] Europe history 947.9
[1] U. S. local history 975.8
secession U. S. hist. 973.713
settlement " " 973.26
For military history see subdivisions of special campains and Military history under 973.3, 973.52, 973.7 and 973.89
Georgian bay, Ont. travel 917.131
style architecture 724.59
Geotropism mesology 612.014477
Geraniaceæ botany 583.223
Geraniales " **583.21**
Geranium perfume plants 633.812
Gerhardt, P. Ger. poetry 831.54
Germ
cells botany 581.172
zoology 591.172
layers embryology **611.0133**
theory biology **576**
of disease bacteria 589.95
pathology 616.01
German
baptist brethren 286.5
catholic church 282.43
cattle **636.23**
cheese, hard 637.3543
soft 637.3533
coach horse 636.143
corps student life 371.83
dancing 793
discovery of America 973.11
emperors Ital. history 945.03
empire, new **943.08**
goose 636.5983
[4] **language** **430**
low 439.1
middle high 437.02
old " 437.01
[5] **literature** **830**
low 839.1
merinos **636.3673**
mythology 293
opera music 782.3
Wagnerian 782.2
painting 759.3
philosofers' lives 921.3

German
philosofy 193
poultry 636.53
reformation polit. hist. 943.03
relig. " 274.3
reformd church 284.1
republic 943.085
sculpture 735
sheep 636.33
socialism 335.5
student dueling 371.82
swine 636.43
universities 378.43
Germanium chemistry 546.695
Germantown, Pa. Am.rev. 973.3337
Germany
administration 354.43
antiquities 913.43
architecture 720.943
Romanesque 723.43
botany 581.943
constitutional law 342.43
education 370.943
finance 336.43
geology 554.3
heraldry 929.6
[1] **history** 943
laws 349.43
local government 352.043
maps 912.43
peerage 929.73
religious history 274.3
schools, public 379.43
statistics 314.3
travel 914.3
treaties 341.243
universities 378.43
zoology 591.943
Germicides
disinfectants pub. helth 614.482
external therapeutics 615.778
Germinal, *see* Germ
Germination botany 581.3
Germs, *see* Bacteria; Bacteriology; Germ theory of disease
Gerrymandering
representation 328.3346
[1]Gers, France history 944.77
Gerstäcker, F; Ger. fiction 833.77
Gerund Latin etymology 472.8
syntax 475.8
Gesneraceæ botany 583.83
Gessenay goat 636.3939
Gesta Romanorum
modern Latin fiction 879.3
Gestation
ectopic obstetrics 618.31
obstetrics 618.2
physiology 612.63
Gesture language educ. 371.912
Gestures oratory 808.5
Gettysburg U.S. civ. war 973.7349
Gex cheese 637.3544
Geysers physical geol. 551.23
Ghebers Parseeism 295
Ghegan repeaters teleg. 621.38324
[1]Ghent history 949.3
travels 914.93
Gherardi, del Testa, T. 852.74
Gherkins garden crops 635 63
Ghibelines Ital. history 945.04
Ghistele, C. van Dut. poet. 839.3128
Ghost, Holy dogmatics 231.3
Ghosts occultism 133.1
Ghouls folklore 398.4
Giacometti, P. Ital. drama 852.73
Giambullari, B.F. " essays 854.36
Giannone, P. " " 854.57
Giannotti, D. " " 854.35
Giant, Cardiff humbugs 133.7
hydraulic 621.269
Giant's causeway descrip. 914.161
Giants nat. hist. of man 573.8
Gibbon, E: Eng. essays 824.67
[1]Gibraltar history 946.8
travels 914.68
[1]Gibson co. Ind. history 977.235
Gifford, W: Eng. satire 827.71
Gifts
kindergarten methods 372.212
library finance 025.111
of books lib. acquisition 025.227
law 021.84
support 021.93
duplicates by lib. to lib. 025.268
money lib. support 021.93
Gigantostraca zoology 595.39
Gigli, G. Italian drama 852.54
Gil y Zárate, A. Span. poet 861.55
Gilbert, H. discov. of Am. 973.17
N: J. L. Fr. satire 847.52
[1]Gilbert ilands history 996.8
Gild houses architec. 725.9
Gilding 671
Gilds parish work 256
polit. economy 338.6
Gilead travels 915.69

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Giles, H: Amer. essays 814.32
Gillikin poultry 636.5882
Gills
comparativ anatomy 611.28
skeleton of " 611.7166
[1]Gilmer co. W. Va. history 975.427
Gin chemic technology 663.5
Ginep 634.652
Ginger 633.825
Ginkgo 634.572
Ginglymus anatomy 611.72964
Ginseng agriculture 633.88
Gioberti, V. Ital. essays 854.77
Giordani, P. " " 854.72
Giovagnoli, R. " fiction 853.87
Gipsies biografy 397
language 397
outcast races 397
Gipsy
moth agriculture 632.78
zoology 595.78
Romany language 397
Giraldès, organ of anat. 611.633
Giraldi, G. B. C.
Italian drama 852.42
fiction 853.44
Girard turbin 621.247
Girart de Rossilho Prov. lit. 849.121
Girder bridges engin'g 624.27
Girders bridge engin'g 624.21
Girdle bone anat. 611.7181
Girdling agriculture 631.54224
Girls
counsels to ethics 173.6
education 376
religious societies 267.8
schools, gymnastics in 371.7326
societies sociology 369.46
[1]Gironde, France history 944.71
Girondists " " 944.04
Girs, Ægidius Swed. misc. 839.7823
Giusti, G. Italian satire 857.71
Glacial drift erosion 551.33
period 551.79
Glacier goat 636.3936
Glaciers 551.31
Glacis fortifications 623.116
Gladiators customs 394.2
Gladiolus anatomy 611.713
[1]Gladwin co. Mich. hist. 977.472
[1]Glamorgan, Wales hist. 942.97
Gland, see special organ or qualifying term
Glanders diseases 616.954
pub. helth 614.564
Glands, see also special organ or qualifying term
Glands of skin anat. 611.772
Glandular system
anatomy 611.4
drugs acting on 615.74
histology 611.01872
physiology 612.4
surgical operations 617.44
Glanschwein 636.431
Glane swine 636.431
Glasgow
[1] Scotland history 941.43
travels 914.143
university 378.41
sloop Amer. revol. 973.352
Glass
and iron structures 721.98
wood " 721.99
apparatus prac. chem. 542.231
bilding material 691.6
blowing prac. chem. 542.2315
iridescent 748
library bildings 022.21
manufacture 666.1
ornamental 748
painted 748
prehistoric 571.56
roofs architec. 721.53
staind, design " 729.8
table dom. econ. 642.7
works architecture 725.48
Glauconite lithology 552.58
Glazing bilding 698.5
Glees vocal music 784.1
Gleet diseases 616.952
[1]Glengarry co. Ont. history 971.377
[1]Glenn co. Cal. hist. 979.431
Gliders aeronautics 629.172
Glisettes curvs 516.26
Globe of eye diseases of 617.74
Globes
school apparatus 371.6791
use of astronomy 522.78
Globular projection 515.52
Globules of blood, *see* Corpuscles
Globulins physiology 612.398132
Globus pallidus anatomy 611.81322
Gloria in excelsis music 783.22
[3]Glossaries Eng. dialects 427
[3] language 423

Glossopharyngeal
ganglion, superior anat. 611.8919
nerv " 611.8319
physiology 612.8199
taste 612.879
nucleus anatomy 611.8186
Glottis " 611.225
physiology 612.7824
[1]Gloucester co. Eng. hist. 942.41
[1] N. B. " 971.512
[1] N. J. " 974.981
Gloves
clothing 646.48
costume 391.4
lether manufacture 675
woven " 677
Glucinum chemistry 546.45
Glucose
chemic technology 664.1
chemistry of blood 612.1221
digestion 612.39613
Glucosids
nutrition 612.396175
vegetable drugs 615.333
Glucosuria
pancreatic physiology 612.3491
pathologic " 612.46621
physiologic " 612.46182
physiology of liver 612.35216
toxic physiology 612.4644
Glue
chemic technology 668.3
making air pollution 614.746
Glumaceæ botany 584.8
Gluteal
arteries anatomy 611.1376
muscle " 611.73814
nerv, inferior " 611.83572
superior " 611.83571
Glutin nutrition 612.398146
Gluttony hygiene 613.25
temperance 178.9
Glycerin chemic tech. 668.2
Glycogen
in blood 612.1222
nutrition 612.396112
Glycogenesis physiol. 612.3521
Glycolysis " 612.3962
Glycolytic ferments
in blood 612.1223
physiologic chem. 612.01516
Glycoproteids nutrition 612.3981453
Glycosmis 634.341
Glyfografy engraving 762
Glyptics carving 736
Gmelin washbottles chem. 542.69
Gnats animal parasites 616.9681
pests agriculture 632.77
zoology 595.77
Gneiss lithology 552.42
Gnetaceæ botany 585.1
Gnoli, Domenico Ital.poet. 851.83
Gnomes folklore 398.4
maxims Eng. lit. 828
folklore 398.9
Gnomic poetry Greek lit. 881
Gnomonic projection
descriptiv geometry 515.55
Gnosticism philosofy 189.1
Gnostics heresy 273.1
Goats 636.3
dairy 637.174
diseases of compar. med. 619.3
domestic animals 636.39
Goatsmilk cheese 637.3552
Gobelin tapestry art 746
Goblins folklore 398.4
God doctrins 231
will of ethics 171.1
Godfrey, T: Amer. dram. 812.12
Gods ethnic religions 290
mythology 291
Goes, J. A.van der Dut. lit 839.3137
Goethe, J; W. von Ger. " 832.62
Gofer cultivator 631.3164
[1]Gogebic co. Mich. history 977.498
Goitre pathology 616.44
Gold
chemistry 546.91
[1] Coast, Africa history 966.9
coinage 332.4
cure alcoholism 616.861
manufactures 671
metallurgy 669.2
mineralogy 549.2
ores econ. geology 553.41
political economy 332.41
Golden
bull Ger. const. hist. 342.43
currant 634.724
Fleece knights 929.715
rule ethics 171.1
Goldoni, Carlo Ital. dram. 852.61
Goldschmidt, M.A. Dan.fic 839.8365
Goldsmith, O. Eng. essays 824.66
fiction 823.64
poetry 821.64

Goldsmithing fine arts 739
useful " 671
Golf amusements 796
Goll's nuclei anatomy 611.8261
tract " 611.8261
Gomberville, M. Le Roy de
French fict. 843.42
Gongora y Argote, L. de
Spanish poetry 861.37
Goniometry crystallog. 548.7
Gonorrhea pathology 616.952
pub. helth 614.548
Good
Friday Anglican ch. 264.031
special music 783.27
[1] Hope, Cape of history 968.7
travels 916.87
Templars temperance 178.06
Goodenovieæ botany 583.58
Goodness ethics 179.9
Goose, Mother folklore 398.3
Goose, *see* Geese
Gooseberry
bush fruits **634.725**
Otaheite palm. fruits 634.666
Gopher cultivator 631.3164
Gorgias Greek philos. 183.1
Gorgonzola cheese 637.3535
Gorham controv. baptism 265.1
Gorilla zoology 599.8
Gosnold, B. discov. of Am. 973.17
Gospels Anglican ritual 264.036
Bible **226**
harmonies of 226.1
pseudo 229.8
Gossip ethics 177.2
Gotama Buddhism 294
Göthe, J;W.von Ger. dram. 832.62
Gothic
architecture **723.5**
ecclesiology 246.1
kingdom Italian hist. 945.01
Span. " 946.01
[4] **language** **439.9**
[5] **literature** **839.9**
revival architecture **724.3**
Victorian " **724.4**
[1]Gothland, Sweden hist. 948.6
Goths " 943.01
Gottfried von Strassburg
German poetry 831.25
Gottschall, K:R. Ger. dram. 832.84
Gottsched, J;C. " " 832.54
L.A.V. " " 832.55
Gouache painting 751
Goudouli, P. de Prov.poet. 849.141
Goumi agriculture 634.743
Gourd, rag " 635.627
wax " 635.618
Gournay fowls " 636.546
Gout diseases 616.991
Gove system suffrage 324.224
Governess private educ. 373.1
Governing board, library **023.3**
Government
appointment of legislators 328.3351
bildings architecture **725.1**
central administration **351**
foren states **354**
church **262**
control insurance 368.91
divine 231.7
family ethics **173**
foren countries **354**
forms of **321**
libraries **027.5**
library economy **023**
loans finance **336.3**
local administration **352**
officers in legislativ bodies 328.3321
political science **320**
publishing 655.59
school education **371.5**
science of polit. science **320**
U. S. and state administ. **353**
vessels fighting 623.825
nonfighting 623.826
Governors biografy **923.2**
steam turbins 621.16535
Gower, J: English poetry 821.18
Gower's tract anatomy 611.8254
Gowns academic 378.29
dom. economy 646.43
Gozzi, Carlo Ital. drama 852.62
Gasparo " satire 857.61
Graafian follicles anat. 611.6512
Grabbe, C. D. Ger. drama 832.71
Gracchi Roman hist. 937.05
Grace doctr. theology 234.1
esthetics 701
Graces music 781.2
mythology 292
Gracilis, fasciculus anat. 611.8182
muscle " 611.73825
Grade
crossing railroads 625.1
of sewers san. eng. 628.219

Graded degrees, academic 378.22
Grades butter 637.223
cheese 637.323
railway engin'g 625.11
roadmaking 625.72
schools 371.25
Grading engineering 625.12
Gradual cathed. music 783.23
Graduated
system suffrage 324.224
Graduates
college, and Amer. revol. 973.315
U.S.civ.war 973.715
Graduation schools 371.291
Græco-Russian church 281.9
Graffiti inscriptions 471.7
Grafic
arts fine arts 700
prehist. archeol. 571.7
representations of sound 534.6
statics 531.2
Grafics of light and shadow 515.7
Graft bills legislation 328.367
business ethics 174.7
political " 172.2
Grafting
animal physiology 612.602
bridge agric. 632.8
plant materials 631.341
methods 631.541
[1]Grafton co. N. H. hist. 974.23
Grafts protection 631.5417
Graham shorthand 653.52
Grail, holy legends 398.2
Grain
agriculture 633.1
[1] Coast, Africa hist. 966.6
duty on 337.5
elevators architecture 725.36
production pol. econ. 338.1
trade dom. trade 381
Graining house paint'g 698.1
Grains agriculture 633.1
Grallatores zoology 598.3
Gram machine electricity 537.83
Gramineæ botany 584.9
Grammar
comparativ 415
elementary education 372.6
schools public schools 379.17
universal comp. philol. 415
[3]**Grammars Eng. lang. 425**
Granada
goat 636.396
Luis de Span. miscel. 868.32
[1] Spain history 946.8
travels 914.68
Granaries architecture 728.95
farm bildings 631.23
Grand
Army of the Republic 369.151
U.S.hist. 973.76
gulf, Miss. U. S. civ.war 973.753
[1] Isle co. Vt. history 974.31
[1] Manan iland, N. B. hist. 971.533
opera 782
[1] Rapids, Mich. hist. 977.456
stands architecture 725.82
[1] Traverse co. Mich. hist. 977.464
Grangers associations 630.6273
Granit bilding stone 553.52
plutonic rock 552.33
Granits metamorf. rock 552.41
Grant, U. S. presidency of 973.82
[1]Grant co. Ind. hist. 977.269
[1] W. Va. " 975.492
[1] Wis. " 977.577
Grants
land finance 336.14
to schools 379.12
Grape
culture 634.8
cure therapeutics 615.854
shore agriculture 634 664
shot ordnance 623.45122
sugar manufacture 664.1
Grapefruit 634.323
Graperies architecture 728.98
Grapes 634.8
Graphic, etc. *see* Grafic
Graphite econ. geol. 553.26
Graphitic anthracite " " 553.25
Grass flies pests 632.75
hook 631.3511
knife 631.3511
Grasses
agriculture 633.2
botany 584.9
ornamental 716.1
Grasshoppers pests 632.72
zoology 595.72
Grates
fireplaces bilding 697.1
locomotiv boiler 621.1332
steam engineering 621.18352
Gratings, timber architec. 721.15

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[1]Gratiot co. Mich. hist. 977.449
Gratitude ethics 179.9
Grattan, H: Eng. oratory 825.65
Gratuities
legislativ employees 328.3626
political economy 331.238
Grave
mounds prehist. arch. 571.92
stones monuments 718
yards 719
Gravel disease 616.62
foundations 721.14
petrografy 552.51
roads engin'g 625.7
roofing bilding 695.6
Graves cemeteries 719
Graves' disease 616.44
Gravimetric anal. chem. 545.1
Gravina, G. V. Ital. essays 854.55
Graving
docks hydraulic engin'g 627.3
shipbilding 623.83
Gravitation
celestial dynamics 521.12
system waterworks 628.12
theories 531.51
Gravity
center of 531.24
experiments geodesy 526.7
physics 531.5
railways 625.3
specific 532.4
Gray, Thomas Eng. poetry 821.61
Gray
African goose 636.59886
Chittagong fowls 636.5852
friars Franciscans 271.3
matter, cerebellar anat. 611.81713
of cord " 611.822
multiplex telegraf 621.38237
telautograf 621.3826
Toulouse goose 636.5984
wild goose 636.59881
Grazzini, A. Ital. fiction 853.41
Grease chem. tech. 665.2
Great Britain
antiquities 913.42
baronetage 929.722
church history 274.2
colonies 325.342
commerce 382
constitution 342.42
det of finance 336.42
dignities 929.724
Great Britain
gentry, landed 929.725
government 354.42
heraldry 929.6
[1] **history 942**
knightage 929.723
parliament 328.42
peerage 929.721
politics 329.942
precedence 929.724
society of 2d war with 369.144
titles of honor 929.72
Great circle sailing 527.5
lakes, U. S. travel 917.7
Great Russia
[1] Northern history 947.2
travels 914.72
[1] Southern history 947.3
travels 914.73
Great Salt lake travels 917.92
schism 270.3
war 1914–19 history 940.3
Grecian bend fashions 391.2
Grecian, see also Greek
Greco-Russian church 281.9
Greece
ancient antiquities 913.38
architecture 722.8
art, history of 709.38
history 938
modern administration 354.495
botany 581.9495
finance 336.495
geology 554.95
[1] **history 949.5**
maps 912.495
schools 379.495
statistics 314.95
travel 914.95
treaties 341.2495
Greed ethics 179.8
Greek
archipelago ancient hist. 939.1
[1] **mod. " 949.9**
architecture 722.8
calendar 529.3
church 281.9
classics 880
dialects 487
fire customs of war 399
independence mod. hist. 949.506
[4] **language 480**
[4] **modern 489**

Greek
literature 880
5 **modern 889**
mythology 292
orders of architecture 729.32
paleografy inscriptions 481.7
philosofy 180
revival architecture 724.2
sculpture 733
theory of music 781.8
Green, J. Amer. poetry 811.14
Green
1 Bay, Wis. history 977.561
1 co. N. Y. " 974.737
1 Wis. " 977.586
fodder, storing 631.563
zootechny 636.08551
vegetable dyes 633.864
1 Lake co. Wis. history 977.559
manures agriculture 631.874
mts, Vt. description 917.43
Greenback party 329.82
Greenbacks paper money 332.5
U. S. finance 336.73
1Greenbrier co. W. Va. hist. 975.488
1 **val. " " 975.486**
Greene, R. Eng. drama 822.31
1Greene co. Ill. history 977.384
travels 917.7384
1 Ind. history 977.242
1 Ia. " 977.7466
1 Mo. " 977.878
1 O. " 977.174
1 Pa. " 974.883
Greenhouses 716.3
architecture 728.98
plant forcing 631.5444
protection 631.3444
Greenland
discovery of Scan. hist. 948.02
1 history 998
Greens kitchen garden 635.4
Greensand petrografy 552.58
molding foundry 621.745
Greensickness diseases 616.15
gynecology 618.17
Gregarinidæ zoology 593.19
Gregariousness of animals 591.55
Gregorian
calendar 529.5
chant ecclesiology 246.8
sacred music 783.5
Grenades ordnance 623.45114
1Grenville co. Ont. hist. 971.374
Gresban, Arnoul Fr. dram. 842.21
Gresset, J. B. L. " satire 847.51
Grévin, Jacques " dram. 842.35
Grévy, Jules Third repub. 944.08
Grey, see Gray
1 co. Ont. hist. 971.318
Grids elec. engin'g 621.3522
Griepenkerl, W. R. Ger.dra. 832.72
Griffin folklore 398.4
heraldry 929.6
Grilles arch. construct. 721.87
Grilling cookery 641.76
Grillparzer, F. Ger. dram. 832.73
Grimmelshausen, H. J. C. von
German fiction 833.52
Grimm's law comp. philol. 412
Grinders' occupation hyg. 613.63
Grinding
flour mills 679
machines mech. eng. 621.92
practical chemistry 542.22
Grindstones 621.923
Gringoire, Pierre Fr. dram. 842.23
Grip diseases 616.203
public helth 614.5
Grison swine 636.449
Gristle
chemic composition 612.7512
histology 611.0183
Gristmills architecture 725.47
Gritstone sheep 636.3261
Groceries adulterations 614.3
Grocers' occupation hyg. 613.63
Grocery stores 641.4
Groind vaults architect. 721.44
Grooming zootechny 636.0833
Grooving machines 621.91
Groselles 634.72
Grossi, Tommaso Ital. fict. 853.73
Grotesque forms
decoration in relief 729.53
painted decoration 729.43
Grottoes phys. geografy 551.44
Ground
air hygiene 613.14
public helth 614.773
hygiene of " " 614.7
substance, bony histol. 611.01843
of connectiv tissue 611.01823
water agriculture 631.432
phys. geografy 551.49
Grounds, private 712
Group system curriculum 375.005
Groves landsc. gardening 715

Groveton, Va. battle of 973.7328
Growth
after birth physiology 612.65
biology 577.3
botany 581.134
disproportionate deform. 617.37
incomplete " 617.31
of cities administration 352.001
statistics 312
library, provision for 022.13
ration during physiol. 612.394
zoology 591.134
Grubber 631.3162
Grubbing ax 631.3116
hoe 631.3116
Grubs pests 632.76
Grundtvig, N. F. S.
Dan. poet. 839.8163
[1]Grundy co. Ill. history 977.326
[1] Ia. " 977.7537
[1] Mo. history 977.8215
Gruyère cheese 637.3544
Gryphius, A. Ger. drama 832.51
Gryphon folklore 398.4
heraldry 929.6
[1]Guadaloupe history 972.97
travels 917.297
Guadaloupe sheep 636.362
[1]Guanajuato, Mex. hist. 972.4
Guano
economic geology 553.64
fertilizers 631.854
Guaranties and sureties 347.7
Guarantor, reader's lib. 024.14
Guardianship law 347.6
Guarini, G. Ital. poetry 851.45
[1]Guatemala history 972.81
Guava agriculture 634.421
Gubbio, Bosone da Ital. fic. 853.14
Gubernatis, Angelo de
Italian miscellany 858.81
Gudrun German poetry 831.22
Guelderland fowls 636.548
Guelders poultry 636.548
Guelphs Italian history 945.04
Guerilla
life military science 355.12
warfare internat. law 341.3
Guerillas
northern U. S. civ. war 973.7417
southern " " " 973 742
[1]Guernsey co. O. history 977.192
[1] iland of " 942.34
travels 914.234
Guernsey cattle 636.2244
Guerrazzi, F. D. Ital. fict. 853.74
[1]Guerrero, Mexico hist. 972.7
Guerrière, ship U. S. hist. 973.5251
Guerrini, Olindo Ital poet. 851.87
Guggisberger goat 636.3936
[1]Guiana, South Am. hist. 988
Guicciardini, F. Ital. essays 854.34
Guidance, vocational 374.1
Guide
books 910
vanes steam turb. design 621.16533
theory 621.16513
Guides, railroad 656
land settlement agric. 631.11
Guidi, Ales. Ital. poetry 851.55
Guidiccioni, G. " " 851.37
[1]Guienne, France history 944.7
Guilds
business polit. econ. 338.6
parish work 256
Guilford, N. C. Am. revol. 973.3372
Guillotine law 343.2
Guinea
[1] Lower, Africa history 967.1
[1] New history 995
travels 919.5
[1] Upper, Africa history 966.5
Guinea fowls 636.593
goat 636.3986
goose 636.59886
pigs dom. animals 636.9
zoology 599.3
sheep 636.386
squash 635.646
swine 636.486
Guinicelli, Guido Ital. poet. 851.13
Guitar music 787.6
[4]Gujerati language 491.47
Gulf
of Mexico phys. geog. 551.463
society of army and navy of 369.156
squadron U.S.civ.war 973.756
[1] **states, U. S. history 976**
For military history of all or individual states, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
stream phys. geografy 551.471
Gulfs
hydrografy of survey'g 526.99
Gullet, diseases of 616.32
Gum collectors 631.3588

Gumbo 635.648
Gums
anatomy 611.314
and resins chem. tech. 668.4
chemistry of nutrition 612.39612
fossil econom. geol. 553.29
gathering agric. 631.5568
perfume plants " 633.816
vegetable drugs 615.335
Gun
boats shipbilding 623.825
carriages, traction of 623.58
cotton explosivs 662.2
making 683
mounts, reaction of 623.57
naval engineering 623.825
Gunnbiorn discov. of Amer. 973.13
Gunnery mil. eng. 623.5
Gunning sports 799
Gunpowder
care mil. engin'g 623.48
explosivs 662.3
manufacture hygiene 613.66
protec. of life 614.832
military engineering 623.4521
plot English history 942.061
Guns
animal capture zootech. 636.081112
military engineering 623.4
theory of 623.51
Gunshot wounds surgery 617.145
Gunter's scale math. instr. 510.8
Gurney shorthand 653.32
Gustaf 3 Swed. drama 839.7252
Gustation physiology 612.87
Gustavus Adolphus
Swedish history 948.04
miscellany 839.7824
Gut, primitiv embryol. 611.01335
Gutcleaning air pollution 614.742
Gutenberg hist. of print. 655.111
[1]Guthrie co. Ia. history 977.749
Gutierrez, A. G. Span.poet. 861.54
Gutta
percha rubber manuf. 678
serena eye diseases 617.75
Guttiferæ botany 583.163
Guttiferales " 583.16
Gutzkow, K. F. Ger. dram. 832.78
[1]Guyandotte val. W. Va. hist. 975.441
Guyot de Provins Fr.satire 847.11
Guys elec. lines 621.319223
[1]Guysborough co. N. S. hist. 971.621
Gyllembourg - Ehrensvärd, T. C. Danish fiction 839.8361
Gyllenborg, G. F. Sw.poet. 839.7146
Gymnasia Ger. schools 379.43
Gymnasiums
architecture 725.85
library bildings 022.666
school " 371.624
Y. M. C. A. 267.327
Gymnastics
curativ 615.82
hygiene 613.71
school hygiene 371.73
vocal elocution 808.5
vocal music 784.9
Gymnoasceæ botany 589.238
Gymnocarpæ botany 589.17
Gymnosophists philosofy 181.4
Gymnospermæ botany 585
Gynecology 618.1
Gypsies, *see* Gipsies
Gypsum
economic geology 553.63
fertilizers 631.821
lithology 552.53
Gypsy, *see* Gipsy
Gyre, paracentral anat. 611.81316
Gyri operti " 611.81319
Gyroscope aerostation 523.28
astronomy 523.28

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Habakkuk Bible 224.95
Habeas corpus law 347.1
Habena anatomy 611.8145
Habenula " 611.8145
Haberdashery clothing 646.32
Habit
mental faculties 158
physiologic psychology 612.82134
Habitations, animal 591.52
see also Dwellings
Habits
animals zoology 591.5
customs 390
laboring classes pol. econ. 331.84
morbid hygiene 613.87
of children dom. econ. 649.6
plants physiol. botany 581.5
Hack licenses loc. gov't 352.8
Hackney coach horse 636.1423
Hackländer, F; W; Ger. fict. 833.78
Hadamar von Laber " poet. 831.32
[1]Haddington, Scotland hist. 941.45
Hades
ancient mythology 292
doctrinal theology 236.4
Hadley's quadrant astron. 522.41
[1]Hadramaut, Arabia hist. 953.4
Hæmodoraceæ botany 584.23
Haem-, haema-, haemato-, haemo-,
see also Hem-, hema-, hemato-, hemo-
[1]Hagerstown, Md. history 975.292
travels 917.5292
Haggai Bible 224.97
[1]Hague, The history 949.2
travels 914.92
tribunal 341.1
Hahn Hahn, I. Ger. fic. 833.76
Hahnemann's theory med. 615.53
Hail storms agriculture 632.14
meteorology 551.55
Haimonskinder, die 831.37
Hair
anatomy 611.781
diseases of 616.54
domestic materials 646.17
dressing customs 391.5
toilet 646.7
dyes " 646.7
engineering materials 620.198
organic chemistry 547
physiology 612.799
pickers' occupation hyg. 613.63
Hakluyt society geografy 910.6
[1]Haldimand co. Ont. hist. 971.337
Hale, Nathan Am. revol. 973.385
Half
sugar mangel 633.416
timberd walls architec. 721.21
tone process photog. 777
way covenant 285.8
Halfa fibers 633.583
Halfbred Leicester sheep 636.3213
Haliburton, T: C. Am. hum. 817.38
[1]Haliburton co. Ont. hist. 971 361
Halicarnassus Gk antiqui. 913.3924
Halids organic chem. 547.7
Halifax
[1] city, N. S. hist. 971.622
travel 917.1622
[1] co. N. S. hist. 971.622
fishery award U. S. hist. 973.83
Hall, J. English satire 827.33
Hall furniture dom. econ. 645.61
marks plate 736
Halle swine 636.431
Halleck, Fitz-Greene Am. lit. 811.31
Haller's rete testis 611.6315
Halley's method astron. 523.94
Hallman, K: I. Swed. dram. 839.7251
Halloweve customs 394
Halls
central lib. bildings 022.51
city architecture 725.13
exhibition " 725.91
for lectures " 725.83
music " 725.81
public hygiene 613.55
riding architecture 725.88
society student life 371.86
temporary architecture 725.92
town " 725.13
turn " 725.85
Hallucinations
mind and body 133.2
physiology 612.82189
Halogen group chemistry 546.12
Haloids organ. chem. 547.4
Halorageæ botany 583.398
Halos optics 535.4
religious art 246.5
[1]Halton co. Ont. hist. 971.353
Hamamelideæ botany 583.394
Hamamelis therap. 615.323394
[1]Hamar, Norway history 948.4
Hamatum, os anatomy 611.71778

[1]Hamburg, Ger. history 943.51
travels 914.351
fowls 636.531
Hamilton
Alexander Am. oratory 815.21
Sir W: Eng. philos. 192.9
[1]Hamilton city, O. hist. 977.1751
[1] Ont. " 971.352
[1] co. Ill. " 977.395
[1] Ind. " 977.256
[1] Ia. " 977.752
N. Y. hist. 974.752
Hamitic language 493
races 572.893
Hammarsköld, L. 839.7462
Hammer anat. of ear 611.857
Hammers machine tools 621.97
[1]Hampden co. Mass. hist. 974.42
[1]Hampshire co. " " 974.42
[1] W. Va. " 975.495
down sheep 636.3232
Hammers cattle 636.2262
[1]Hancock co. Ill. " 977.343
[1] Ind. " 977.258
[1] Ia. " 977.724
[1] Me. " 974.14
[1] O. " 977.119
[1] W. Va. " 975.412
Hand
arteries anatomy 611.1344
barrows 631.3731
carts 631.3734
chiromancy 133.6
cultivators 631.3161
dressing of ore min. eng. 622.72
equipment laundry 648.15
feeding zootechny 636.08413
human anatomy 611.976
lamps dom. econ. 644.321
language def and dum 371.912
laundering 648.22
lymfatics anatomy 611.42176
muscles " 611.7377
rollers 631.3141
railing stair bilding 694.8
plow 631.3121
turning lathes 621.94
Handbooks of travel 910
Handicraft mechan. trades 680
Handkerchief customs 391.6
toilet 646.48
Handling minerals mining 622.61
Hands, artificial surgery 617.57
Handspikes ordnance 623.4361
Handwriting 652
Hangars aeronautics 629.144
Hangers mech. engin'g 621.822
Hanging punishments 343.2
Hangings
textil bilding 698.7
dom. econ. 645.3
[1]Hannibal, Mo. history 977.8351
Hanover
[1] Germany history 943.53
travels 914.353
house of English hist. 942.07
Irish " 941.57
Scottish " 941.07
Hanoverian horse 636.143
merinos 636.36732
sheep 636.3335
swine 636.434
Hanseatic leag hist. 943.5
[1]Hants co. England " 942.27
[1] N. S. " 971.635
Happiness ethics 171.4
Hapsburg, house of, Ger. 943.026–06
Harbor defenses fortifica. 623.1
engineering 627
Harbors
hydrografy of surveying 526.99
Hard cheese 637.354
fibers 633.57
labor punishments 343.2
Hardenberg, F; von Ger.fic 833.63
[1]Hardin co. Ill. history 977.398
[1] Ia. " 977.753
[1] O. " 977.144
Harding shorthand 653.35
Hardness
engineering tests 620.1126
of molecules physics 539.53
Hardshel baptists 286.4
Hardware manuf. 671
[1]Hardy co. W. Va. history 975.493
Harelip surgery 617.32
Harems customs 392.6
Haren, O.Z. van Dut. dram. 839.3244
Willem van " poet. 839.3145
Hares dom, animals 636.9
zoology 599.3
[1]Harford co. Md. history 975.274
Haricots kitchen garden 635.652
Häring, W; Ger. fiction 833.75
Harington, J: Eng. satire 827.32
Harlem Heights
battle Amer. revol. 973.3324
Harlots ethics 176.5

Harmar's exped. U.S.hist. 973.42
Harmonic multiplex teleg. 621.38237
Harmonics
analytic geometry 516.56
modern " 513.56
music 781.1
Harmonists sects 289.9
Harmonium 786.9
Harmony
music 781.3
of colors optics 535.6
painting 752
gospels Bible 226.1
Harness
breaking to zootechny 636.08862
care " 636.0837
farm transport 631.374
horse domestic animals 636.14
Harnessmaking 685
Harp 787.5
Harpers Ferry
[1] W. Va. history 975.499
invasion U.S. " 973.68
Harpsichord 787.9
Harquebus firearms 623.441
Harrington, J. Eng. fic. 823.41
Harris, W:T. Amer. phil. 191.8
Harrisburg, Miss. U.S. hist. 973.7372
[1] Pa. hist. 974.818
insurrect'n 974.8
Harrison, B: presidency of 973.86
W:H: " " 973.58
[1]Harrison co. Ind. history 977.221
[1] Ia. " 977.747
[1]Harrison co. Mo. history 977.817
[1] O. " 977.168
[1] W. Va. " 975.457
Harrowing 631.513
Harrows 631.313
Hart
anatomy 611.12
diseases 616.12
ectopic physiol. 612.1717
effect of sympathet. syst. 612.897
toxins physiol. 612.174
vagus " 612.819911
in asphyxiation " 612.2323
membranes diseases of 616.11
physiology 612.17
valvs anatomy 611.1263
Harte, F. Bret Am. fiction 813.45
[1]Hartford city, Ct. history 974.63
conven. U.S. " 973.521
[1] co. Ct. history 974.62
Harth money pol. econ. 336.27
Hartmann von Aue Ger. lit. 831.26
Harts
lymfatic comp. physiol. 612.424
Hartzembusch, J. E. Sp. lit. 861.56
Harvard
table system 642.55
university 378.744
Harvesters
corn 631.355
grain 631.3542
Harvesting
machines 631.35
operations 631.55
Harz mountain goat 636.393
[1]Hasa, Arabia history 953.6
Hashish ethics 178.8
hygiene 613.82
Hasp cultivators 631.3162
[1]Hastings co. Ont. hist. 971.358
Hat fibers 633.584
Hatchet, pruning 631.3425
Hatching
artificial zootechny 636.08247
engraving 762
Hate ethics 179.8
Hatmaking 687
Hatracks dom. econ. 645.61
lib. " 022.921
Hats clothing 646.5
costume 391.4
Hatteras inlet U.S. civ.war 973.751
Hauch, J. C. Danish poet. 839.8164
Hauff, W; German fic. 833.67
Haulage
animal min. eng. 622.65
mechanic " " 622.66
Haunted houses 133.1
Hautbois strawberry 634.752
Haute
[1] Garonne, France history 944.86
[1] Loire " " 944.81
[1] Marne " " 944.33
[1] Saône " " 944.45
[1] Savoie " " 944.49
[1] Vienne " " 944.66
Hautes
[1] Alpes, " " 944.97
[1] Pyrénées " " 944.78
[1]Havana history 972.91
travels 917.291
Haven shorthand 653.56
Haversian canals histol. 611.01843

[1]Havre, France history 944.25
travels 914.425
Hawaii
annexation U. S. hist. 973.88
[1] history 996.9
travel 919.69
Hawaiian
annexation treaty 973.86
language 499
Hawes, S. Eng. poetry 821.25
Hawkesworth, J: " essays 824.65
Hawking sports 799
business 639.1
Hawkins, J: discov. of Am. 973.17
Hawk
agricultural pest 632.682
captor zootechny 636.081113
Hawsers ship outfit 623.86
strength of 620.11288
Hawthorne, J. Amer. fic. 813.47
N. " " 813.33
Hay agriculture 633.2
dry fodder zootechny 636.08554
fever diseases 616.202
gatherers 631.3532
making 631.553
rakes 631.3532
spreders 631.3531
stackers 631.3534
Haybox cookers 643.338
Hayracks 631.3735
Hayes, R. B. presidency of 973.83
Hayne, P. H. Am. poetry 811.42
[1]Hayti history 972.94
travel 917.294
Haze meteorology 551.57
Hazelnut 634.54
Hazing student life 371.82
Hazlitt, W: Eng. essays 824.76
Head, Headgear, etc., *see* Hed, Hedgear, etc.
Healing, divine 265.8
Health, *see* Helth
Hearing
acoustics 534.7
anatomy 611.85
asylums for def 362.4
diseases 617.8
ear hospitals 362.1
facial nerv 612.81974
localization of sense 612.82555
physiology 612.85
psychology 152.2
Hearings
legislativ procedure 328.3742
Heart, *see* Hart
Hearth money pol. econ. 336.27
Heat
agriculture 632.12
animal physiology 612.5
breeding zootechny 636.082451
diaphoretics 615.743
disinfection contag. dis. 614.483
effect on books 025.8
plants 581.54
engins air engins 621.41
food preservation 641.4
geologic agents 551.94
imponderable remedies 615.832
mesology physiology 612.01443
meteorology 551.52
muscular physiology 612.7455
of earth 525.2
moon 523.32
stars 523.82
sun 523.72
physics 536
physiologic effects 612.59
production, muscular 612.745
protection of animals 636.08362
slow, cooking by 641.588
thermochemistry 541.36
Heaters, feedwater 621.1972
portable 644.19
Heath sheep 636.333
Heathen
apologetics against 239.3
art ecclesiology 246.2
missions to 266
philosofy vs the church 261.2
religions 290
salvation of 234
Heathenism nonchr. relig. 299
Heating
apparatus dairy 637.1322
bilding 697
cheesemaking 637.3334
domestic economy 644
houses sanitary engin'g 628.8
libraries 022.8
milk preservation 637.1332
physics 536.83
practical chemistry 542.4
school bildings 371.628
shipbilding 623.85
steam plants 621.19
systems dom. econ. 644.1

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Heaven theology 237.4
Heavenly bodies
figures of 521.14
rotation of 521.15
Heavy current engineering 621.31-.37
Hebbel, F; Ger. drama 832.77
Hebraic Sabbath 263.1
Hebrew ancient history 933
[4] **language 492.4**
[5] **literature 892.4**
religion 296
Hebrews epistles 227.87
modern history 296
[1]Hebrides " 941.17
[1] New history 993.4
travels 919.34
Hebrides, sheep 636.3258
Hed
ake diseases 616.84
anatomy 611.91
art anatomy 743
boiler steam engineering 621.18452
bones anat. 611.714
bursae " 611.751
craniology 573.7
diseases 616
dress customs 391.5
lymfatic glands anat. 611.461
lymfatics " 611.4211
muscles " 611.732
oblique muscles " 611.7318
phrenology 139
surgery 617.51
Hedakes diseases 616.84
Hedberg, F. Swed. dram. 839.7265
Heders 631.3543
Hedge trimmer 631.3421
Hedgear, indoor 646.48
outdoor 646.5
Hedges agriculture 631.27
landsc. gardening 715
Heding pruning 631.54213
Hedjaz, Arabia history 953.2
Hedonism ethics 171.4
Hedstones monuments 718
mortu. design 247.3
Hedysareae legume crops 633.376
Heel anatomy 611.986
bone " 611.71873
scrape 631.3164
Hegel German philosofers 193.5
Hegelund, P. J. Dan. dram. 839.8233
Hegesias Gk philosofers 183.5
Heiberg, J. L. Dan. dram. 839.8262
Heiberg, P: A. Dan. dram. 839.8258
Heidelberg catechism 238.41
[1] history 943.46
travels 914.346
Heideschnucken 636.333
Height, *see* Hight
Heine, H, Ger. poetry 831.75
Heinrich von Veldeke 831.23
Heinrije van Veldeke 839.3112
Heirs law 347.6
[1]Hejaz, Arabia history 953.2
Hektograf offis appliances 652
Heldenbuch Ger. poetry 831.29
das K.v.d.Röhn 831.35
Heliand Saxon epic poetry 839.2
Helicopters aeronautics 629.176
Heliocentric
longitude and latitude 521.25
place 521.2
Heliografs, military 623.731
Heliogravure photog. 777
Heliometer astronomy 522.45
Heliostat " 522.58
Heliotherapy medicin 615.831
Heliotropism mesology 612.014447
Heliotypes 774
Heliozoa zoology 593.13
Helium group chemistry 546.29
Hell theology 237.5
Hellebore irritant poisons 615.93
Hellenic languages, minor 489
Helmers, J. F. Dutch poet. 839.3152
Helminthology zoology 595.1
Help, *see* Servants
Helps, Sir A. Eng. essays 824.84
Helps for laboring classes 331.85
Helth
affected by soil 614.77
boards of local gov't 352.4
pub. helth 614
for library servis 023.54
laws hygiene 613
lift therapeutics 615.82
of students 371.71
public 614
resorts hygiene 613.12
Helths
drinking of customs 394.1
ethics 178.3
Hematin physiology 612.11116
Hematoidin " 612.11116
Hematology, *see* Blood
Hematopoiesis physiology 612.119

Hematopoietic
  action of spleen 612.411
  function of liver 612.356
Hematoxylin physiology 612.11116
Hematuria " 612.46669
Hemeralopia " 612.8456
Hemin " 612.11116
Hemiplegia paralysis 616.842
Hemiptera insects 595.75
Hemlock
  therapeutics 615.786
Hemming dom. econ. 646.21
Hemmingsen, N. Dan. misc. 839.883
Hemocyanin physiol. 612.1118
Hemoglobin blood 612.11111
  nutrition 612.3981452
Hemoglobinuria physiol. 612.46669
Hemolytic subst. " 612.11145
Hemophilin " 612.11533
Hemorrhage
  in labor obstetrics 618.54
  of the lungs diseases 616.234
  physiology 612.1162
Hemorrhoidal
  artery, middle anat. 611.13774
  nervs, " " 611.839
  plexus " 611.1471
Hemorrhoids diseases 616.35
Hemostasia physiology 612.11621
Hemp
  agriculture 633.53
  See also distinguishing name
  domestic economy 646.12
  engineering materials 620.197
  gathering 631.5565
  harvesters 631.3565
  manufactures 677
Hen pigeons 636.59628
[1]Henderson co. Ill. hist. 977.341
[1]Hendricks co. Ind. " 977.253
Henequen agave fibers 633.5771
Henri Deux ware pottery 738
Henry 1 Eng. history 942.023
  2 " 942.031
  Irish history 941.52
  3 Eng. history 942.034
  4 " 942.041
  5 " 942.042
  6 " 942.043
  7 " 942.051
  8 " 942.052
Henry 1 French history 944.021
  2 " 944.028
  3 " 944.029
  4 " 944.031
Henry 1 Ger. history 943.022
  2 " 943.022
  3 " 943.023
  4 " 943.023
  5 " 943.023
  6 " 943.024
  7 " 943.026
[1]Henry co. Ill. history 977.338
[1] Ind. " 977.264
[1] Ia. " 977.795
[1] Mo. " 977.846
[1] O. " 977.115
  Ft, capture U.S.civ.war 973.7322
  naval hist. " 973.752
Hens diseases of 619.5
  poultry **636.5**
Hepatic
  artery anatomy 611.13641
  circulation physiology **612.3515**
  duct anatomy 611.362
  extract physiology **612.3516**
  nervs anatomy 611.8393
  opotherapy physiology 612.35161
  steatoses, toxic " 612.3541
  vein anatomy 611.1464
Hepaticæ botany 588.3
Hepatitis diseases 616.36
Hepatology physiology **612.35**
Heptarchy Eng. history 942.01
Heraclitus Gk philosofy 182.4
Heraldry **929.6**
[1]Herat, Afghanistan hist. 958.3
  trav. 915.83
[1]Herault, France history 944.84
Herb doctors cures 615.855
Herbaceous grafting 631.54137
Herbal perfume plants 633.812
Herbariums 580.7
  architecture 727.6
Herberay, N: d' Fr. fiction 843.33
Herbert, G: Eng. poetry 821.38
Herblike fruits **634.77**
Herbs garden crops **635.7**
Herculaneum description 913.377
Herd
  books zootechny 636.0822
  character " **636.0821**
  composition " **636.0823**
Herder, J; G. von Ger. poet. 831.64
Herdwick sheep 636.3253

Hereditary
diseases hygiene 613.93
genius mental charac. 136.3
membership in legis. bod. 328.3352
societies, Amer. **369.1**
succession law 347.6
pol. sci. 321.6
Heredity
evolution 575.1
hygiene **613.9**
mental 136.3
origin of the soul 129.2
physiology 612.605
spiritual doctrinal theol. 233.3
zootechny 636.08211
[1]Hereford, England hist. 942.44
sheep 636.3242
cattle 636.2226
Heresies **273**
Heretics, persecutions of **272**
Herjulfson, B. Amer. hist. 973.13
[1]Herkimer co. N. Y. hist. 974.761
Hermann v. Sachsenheim 831.33
Hermanni, N. Swed. poetry 839.7111
Hermaphrodites animals 591.167
man 573.9
Hermaphroditism physiol. 612.608
Hermeneutics Bible 220.6
Hermetic art alchemy 540.1
Hermits biografy 920.8
religious biografy **922**
Hernia diseases 616.34
Herniotomy surgery 617.55
Herodotus Greek literat. 888.1
Heroism ethics 179.6
Herpetology **598.1**
Herrera, F. de Span. poetry 861.35
Herrick, R. Eng. poetry 821.43
Herring fisheries 639.2
Herrnhuters sects 284.6
[1]Hertford Eng. history 942.58
Hertz, Henrik Dan. dram. 839 8263
Herzegovina history 943.96
Hesiod Greek epic poetry 883.2
Hesse-
[1] Darmstadt Ger. hist. 943.41
[1] Nassau " " 943.58
Hessian fly agric. pests 632.77
sheep " 636.3332
Hessians Amer. revol. 973.342
Hetærism customs 392.6
Heterocera, *see* Moths
Heterogenesis
alternate generation 591.163
spontaneous " 591.161
Heterophagic variat. zool. 591.153
Heven theology 237.4
Hevenly bodies, figures of 521.14
rotation " 521.15
Hevy current cells 621.3534
engineering **621.31–.37**
Hexacorolla zoology **593.63**
Hexagons geometry 513.16
Hexameters
English prosody 426.5
Greek " 486.5
Latin " 476.5
[3] other languages
Hexapoda zoology **595.7**
Hexateuch Bible 222.1
Heyse, P. J; L; Ger. fict. 833.85
Heywood, J: Eng. drama 822.21
Hiatus Greek prosody 486.4
Latin " 476.4
[3] other languages
Hibbert lectures religion 290
Hibernation comp. phys. 612.58
zoology 591.54
Hickory nut **634.52**
Hickok, L. P. Am. philos. 191.4
Hickory co. Mo. history 977.8496
Hicksites friends 289.6
[1]Hidalgo, Mexico history 972.4
Hide eng. materials 620.198
Hierarchy, military 355.33
Hieroglyphics **419**
Egyptian 493.1
High
altitude observatories 522.14
church Anglican church 283
cranberry 634.745
huckleberry 634.737
license temper. ethics 178.4
pressure engins 621.11253
hot water heat'g 697.4
piping hydraul. 621.253
steam heat'g 697.5
schools 379.17
speed telegrafy **621.3824**
treason law 343
High
velocity overshot wheels 621.222
Higher
algebra **512.8**
criticism Bible 220.6

Higher
education academies 373
colleges 378
of women 376.6
numeric equations algeb. 512.22
[1]Highland co. O. history 977.184
Highland blackfaced sheep 636.3252
Highlands, Scotland descr. 914.11
[1] **hist. 941.1**
Highmore's body anat. 611.6315
Hight
of atmosphere 523.58
bildings ground hyg. 614.784
tide wave 525.65
Hights, mesurem't survey'g 526.94
Highway areas Eng. loc. gov. 352.0427
bridges engin'g 624.12
Highwaymen law 343
Highways
administration 351.811
law 347.2
local government 352.7
road engineering 625.7
transportation 386
travel on protec.of life 614.862
Hil sowing 631.5313
Hildebrand Italian hist. 945.03
religious " 270.4
Hildebrandslied Ger. poet. 831.11
Hillhouse, J. A. Am. dram. 812.23
[1]Hillsboro co. N. H. hist. 974.28
[1]Hillsdale co. Mich. " 977.429
Hilside plow 631.3124
Hilsides reclamation 631.613
Himalayan architecture 722.4
Himalayas phys. geog. 551.43
travel 915.42
Himyaritic inscriptions 492.917
[4] **language 492.9**
Hindbrain anatomy 611.817
[4]**Hindi language 491.43**
Hindoo, *see* Hindu
[1]**Hindostan history 954**
Hindrances farming 632
Hindu architecture 722.4
[4] **languages 491.1**
law 349.54
philosofy 181.4
religion 294
Hinduism 294
[1]**Hindustan history 954**
[4]**Hindustani language 491.43**
Hinged
arch bridge engin'g 624.68
Hinny domestic animals 636.183
Hinterwald goat 636.393
Hip
anatomy 611.981
bone 611.7181
diseases of 616.7
joint anatomy 611.7282
muscles " 611.7381
surgery 617.58
Hipparion paleontology 569.7
Hippias Greek philos. 183.1
Hippocampal gyre anat. 611.81314
sulcus " 611.81314
Hippocrates strainer chem. 542.67
Hippology *see* Horse
Hipponax Greek satire 887.3
Hippophagy hygiene 613.28
Hippuric acid physiology 612.461266
Hirudinidæ medicin 616.9688
zoology 595.1
Hirundinidæ " 598.8
Histogenesis " 591.17
Histology
animals 591.8
botany 581.8
human anatomy 611.018
of muscular contraction 612.7419
Historians, English biog. 928.28
Historic
atlases 911
books Bible 222
charts and tables 902
geografy 911
[2] magazines 905
painting 756
school econ. systems 330.154
sermons 252.9
[2] societies 906
theology 209
History 900
ancient 930
constitutional 342
ecclesiastic 270
general modern 909
literary, general 809
modern 940–999
natural 590
naval, see spec. countries
of civilization 901
soil 631.49
philosofy of 901
sacred 220.9
universal 909
[2] of special topics see subject

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Histrionics 792
Hittites history 939.45
Hives apiculture 638.1
skin diseases 616.51
Hjärne, Urban Swed. misc. 839.7832
Hobbes materialism 146
Hobbies
Hobkirks hill, S.C. Am. rev. 973.3372
[1]Hoboken, N. J. history 974.928
[1]Hochelaga co. Que. " 971.428
[1]Hocking co. O. " 977.183
Hocky outdoor sports 796
Hoe, grubbing 631.3116
horse 631.3162
hand 631.3151
Hoeing tillage 631.515
Hoffmann, E.T.W; Ger. fict. 833.64
Hofmannswaldau " poet. 831.55
Hog
diseases of 619.4
domestic animals 636.4
engin engineering 621.13262
stys air pollution 614.762
Hohenstaufen, house of
German history 943.024
Hohenzollern " " 943.49
Hoijer, B:K:H. Sw. essays 839.7461
Hoisting engins min. eng. 622.67
machinery " 621.86
mining engin'g 622.6
of water mining 622.55
Hoists
blocks and tackle 621.862
hydraulic 621.263
projectil ordnance 623.4364
Holberg, L. Dan. dram. 839.8241
Hölderlin, J; C. F; Ger. poet. 831.67
Holderness cattle 636.2831
Holdover
members legislatures 328.3356
Holiday
opening library econ. 024.43
work " " 023.633
Holidays
customs 394
hygiene 613.77
laboring classes 331.817
library economy 023.65
school education 371.23
Holiness doctr. theology 234.8
Holland, J. G. Am. essays 814.34
Holland swine 636.434
see also Netherlands
Hollow tile
construction bilding 693.4
floors arch. construc. 721.63
Holly system waterwks 628.12
Holmes, O.W. Am. humor 817.32
[1]Holmes co. O. history 977.164
Holmström, I. Swed. poetry 839.7134
Holocephali zoology 597.3
Holothuroidea " 593.96
Holstein
cattle domes. animals 636.2341
[1] duchy of history 943.51
Friesian cattle dom. anim. 636.2342
horse dom. animals 636.143
[1]Holt co. Mo. history 977.8115
Holtz machine electricity 537.2
Holy
alliance European hist. 940.28
communion 265.3
Eastern church 281.9
Ghost, knights of 929.716
theology 231.3
grail legends 398.2
land history, ancient 933
[1] mod. 956.9
pre-Israel. hist. 939.45
travels 915.69
leag French history 944.029
offis persecutions 272.2
Span. hist. 946.04
orders church 265.4
Roman empire 943
rood ecclesiology 247.9
scriptures 220
see 282
Spirit theology 231.3
war thret Great war 940.315297
water ecclesiology 246.6
Homage feudalism 321.3
Home, H: English essays 824.62
J: " dram. 822.64
Home
customs 392
domestic economy 643
economics 640
education library econ. 021.4
of girls 376.3
self-education 374
vs school 373.11
life ethics 173.7
meals domest. econ. 642.1
missions 266
relations customs 392.3

Home
rule Irish history 941.58
polit. parties 329.942
study, societies for 374.43
use of books lib. reg. 024.6
woman in 396.6
Homeopathy therap. 615.53
Homer Greek poetry 883.1
Homeric hymns 883.1
Homers pigeons 636.59635
Homes
country architecture 728.6
for aged architecture 725.56
poor, city " 728.11
country cottages 728.68
tenem'ts 728.12
hygiene 613.51
soldiers architecture 725.59
institutions 362.8
Washingtonian architec. 725.65
working girls institu. 362.8
pol. econ. 331.83
Homested bill U. S. law 347.2
Homicide law 343
Homiletics theology 251
Homilies sermons 252
Homœopathy 615.53
Homoiothermic animals, 612.39196
Homologies biology 574
botany 581.4
zoology 591.4
Homonyms Eng. philol. 424
Homopolar mach. elec.eng. 621.313291
Homoptera entomology 595.75
Hondt system suffrage 324.224
Honduras
[1] British history 972.82
[1] Central America hist. 972.83
trav. 917.283
turkey 636.59213
Honesty ethics 174.7
Honey agriculture 638.1
Honeymoon customs 392.5
[1]Hong Kong, China hist. 951.2
trav. 915.12
[1]Honolulu history 996.9
travels 919.69
Honor
business ethics 174.7
military 355.13
roll of Great war 940.467
U. S. civ. war 973.767
student 371.81
system school gov't 371.59
Honorary
degrees colleges 378.25
titles heraldry 929.7
Honors
Great war 1914-19 940.46
military science 355.13
Hood, Robin legends 398.2
T: Eng. humor 827.72
Hoods, academic 378.29
domestic econ. 646.55
Hooft, C. Dutch drama 839.3232
Hoogvliet, Arn. " poetry 839.3143
Hook bone anatomy 611.71778
Hooks, bill 631.3424
grass 631.3511
pruning 631.3422
reaping 631.3511
strength of engin'g 620.11286
weed 631.3155
Hookworm disease 616.965
Hooping cough diseases 616.204
Hoops, gun ordnance 623.4233
strength of engin'g 620.11286
Hoopt guns ordnance 623.42161
Hoosac tunnel engin'g 622.26
Höpken, A. J. von Swed.misc. 839.7845
Hopkinsianism Calvinism 284.2
Hopkinson, Francis Am.sat. 817.14
Hops agriculture 633.89
brewing 663.3
Horace Latin lyric poetry 874.5
satire 877.3
Hordeae grass crops 633.289
Horizon, artificial 522.57
Horizontal marine engins 621.1224
steam " 621.11242
Horn organic chemistry 547
wind instrument 788.4
Hornbill birds 598.8
Hornd cattle agriculture 636.2
dorset sheep 636.3233
Norfolk sheep 636.3235
Horneck, O. von Ger. poet. 831.31
Hornet
and Peacock U. S. hist. 973.5253
Penguin " 973.5257
Hornless Spanish goat 636.396
Horns anatomy 611.788
drinking customs 394.1
gray spinal cord 611.822
Horology astronomy 529.7
watchmaking 681
Horoscope astrology 133.5

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Horse
artillery mil. engin'g 623.431
capto zootechny 636.081113
cars railroad eng. 625.6
cruelty to 179.3
cultivators 631.3162
diseases veterin. med. 619.1
domestic animals 636.1
fertilizers 631.861
hoe 631.3162
pox diseases 616.955
racing amusements 798
ethics 175.7
railway engineering 625.6
sociology 386
useful arts 656
rollers 631.3141
shoeing trade 682.1
zootechny 636.08113
training dom. animals 636.1
zoology 599.7
Horseman pigeons 636.59631
Horsemanship 798
Horsepower, locomotiv 621.1311
Horseradish 633.846
Hortatory theology 243
Horticultural societies 716
agric. 630.6
Horticulture agriculture 630
art 716
Hose fire engins 614.846
Hosea Bible 224.6
Hosiery clothing 646.42
costumes 391.4
manufacture 677
Hospice of St Bernard
protec. of life 614.87
Hospital
cookery dom. econ. 641.563
gangrene diseases 616.941
ships shipbilding 623.826
sketches Great war 940.476
U. S. civ. war 973.776
training schools 610.73
Hospitalers knights 929.711
Hospitality ethics 177.1
Hospitals
and asylums arch. 725.5
Great war 1914-19 940.476
hygiene 613.56
institutions 362

Hospitals
U. S. history civil war 973.776
Mex. " 973.627
revolution 973.376
Span. war 973.897
war of 1812 973.527
Host eucharist 265.3
Hostilities, *see* War
Hot
air baths hygiene 613.46
engins 621.41
heating bilding 697.3
treatment 615.832
drinks hygiene 613.37
houses agriculture 631.5445
flower culture 716.3
springs physical geol. 551.23
water heating 697.4
wether cookery 641.592
Hotblooded horses 636.12
Hotbeds
forcing 631.5443
protection 631.3443
Hotchkiss
gun ordnance 623.4225
revolving cannon 623.42242
Hotels
architecture 728.5
cookery 641.572
family architecture 728.2
housekeeping 647.94
hygiene 613.52
Hottentots description 916.87
Houdan fowls 636.542
[1]Houghton co. Mich. hist. 977.499
Hour glasses horology 529.78
system lib. econ. 023.64
Hours
library regula. for read. 024.3
meal lib. econ. 023.62
of labor dom. econ. 647.7
newspaper offis 070.315
polit. econ. 331.814
servis lib. econ. 023.61
teachers 371.166
school 371.24
House
bilding 690
care of dom. econ. 648.5
cleaning " " 648.5
connections sewerage 628.252
domestic economy 643
drainage sewerage 628.6
drains " 628.235

House
flies domestic pests 648.7
furnishing dom. econ. 645
garments " " 646.43
of commons English 328.42
correction 364
lords English 328.42
refuge 364
representativs U. S. 328.73
painting bilding 698.1
repairs dom. econ. 643.7
sanitation " " 648.5
tax real estate 336.22
wiring elec. lighting 621.3282
Household
accounts dom. econ. 647.1
administration 647
art decoration 747
organization 647
registers of servants 647.29
servis, indoor 647.25
outdoor 647.3
Housekeeper dom. econ. 647.21
Housekeeping 640
cooperation 334.4
schools dom. econ. 640.7
Houses
architecture 720
care zootechny 636.0832
disinfection in cont. dis. 614.48
farm 631.21
feeding in zootechny 636.08426
flues in sewerage 628.233
hygiene 613.5
noble heraldry 929.7
pipes on sewerage 628.234
society student life 371.86
Housewifery 640
Housing
of animals hygiene 614.94
zootechny 636.0831
laboring classes 331.83
Houston's valvs rectum 611.351
Houwaert, J.B. Dut. poet. 839.3125
Hovenia 634.661
Howard, H: Eng. poet. 821.28
[1]Howard co. Ind. hist. 977.285
[1] Ia. " 977.731
[1] Md. " 975.281
[1] Mo. " 977.8285
[1]Howell co. Mo. " 977.885
Howells, W: D. Am. fic. 813.43
Howe's campaign Am. rev. 973.3336
Howitzer mounts ordn. 623.4322
Howitzers " 623.4213
Hubbard squash 635.622
Hubbardton, Vt. Am. rev. 973.3332
Huckleberry 634.73
Huckster licenses local gov. 352.8
Hudson
[1] bay territory history 971.2
[1] co. N. J. " 974.926
river campain Am. rev. 973.3321
description 917.47
Hudson's, H: voyage
N. Y. hist. 974.7
U. S. " 973.21
Huerta, V.A.G. de la 861.43
Huet, C. B. Dutch essays 839.3455
Hugh Capet Fr. history 944.021
Hughes printing telegraf 621.38253
Hugo, V. M. Fr. drama 842.78
" fiction 843.78
" poetry 841.78
Huguenots
church 284.5
lives 922.4
persecutions 272.4
Hulsean lectures apologet. 239.03
Human
ability doctrinal theol. 233.4
anatomy 611
body art anatomy 743
temperature 612.56
and mind 130
depravity doctr. theol. 233.1
excreta fertilizer 631.86
faculties psychology 150
figure perspectiv 515.67
habitations hygiene 613.5
life protec. fr. accident 614.8
locomotion physiol. 612.766
mind psychology 150
nature dogmatics 233
mental charac. 136
physiology 612
power agriculture 631.3711
race ethnology 572
resorts hygiene 613.5
rights pol. science 323
sacrifice nonchrist. relig. 290
Humane societies 179.2
Humanism literature 880.7
Humanism philosofy 149.9
Humanitarianism sects 288
theol. 230.8
Humanity ethics 177.7
Humanized vaccination 614.4732

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[1]Humboldt co. Ia. hist. 977.727
Humbugs delusions 133.7
Hume, D: Eng. essays 824.64
philosofy 192.4
Humeral artery anatomy 611.1342
Humero-
radial joint anatomy 611.72733
spinal muscles " **611.7311**
ulnar joint " 611.72731
Humerus " 611.7174
Humidity
soil 631.432
Humility ethics 179.9
Humiriaceæ botany 583.213
Humming birds zoology 598.8
Humor
American literature 817
revolution 973.396
aqueous anatomy 611.8449
physiology 612.8444
[5] **English literature 827**
Great war 1914-19 940.436
library 020.88
U. S. civil war 973.796
war of 1812 973.5296
vitreous anatomy 611.8447
physiology 612.8447
Humoral pathology 616.4
Humorists, Eng. biografy 928.27
Hundred days Fr. hist. 944.05
Hungarian fowls 636.538
goat 636.393
language 494
merinos 636.36737
sheep 637.373
swine, curly 636.472
shorteared 636.432
[1]Hungary history 943.91
Hunger and thirst physiol. 612.391
Huns history 950
Hunt, Leigh Eng. essays 824.77
[1]Hunterdon co. N. J. hist. 974.971
Hunters horses 636.13
Hunting business 639.1
sport 799
suits dom. econ. 646.47
training zootechny 636.088662
[1]Huntingdon co. Pa. hist. 974.873
[1] Que. " 971.431
[1]Huntington city, W.Va " 975.4421
[1] co. Eng. " 942.56
[1] Ind. " 977.271
[1]Huron co. Mich. " 977.444
[1] O. " 977.125
[1] Ont. " 971.322
Huronian strata geology 551.71
Hurricanes 551.55
Husband and wife ethics 173.3
law 347.6
Husbandry agriculture 630
Husbands, duties of eth. 173.3
Husk tomato 635.647
Huskers 631.3613
Husking, corn 631.5613
Hussites Christian sects 284.3
Huttegen fowls, Belgian 636.548
Huydecoper, Balthaser
Dutch drama 839.3243
Huygens, Constantijn
Dutch poetry 839.3134
[4]**Huzwaresh language 491.53**
Hvitfeld, Arild Dan. mis. 839.883
Hyaloid canal anat. 611.8447
membrane " 611.8447
Hybrid turnip 633.425
Hybrids
animals zoology 591.158
zootechny 636.082431
plant breeding 631.523
plants botany 581.158
Hydatids of Morgagni 611.633
parasitic diseases 616.964
[1]Hyderabad, India history 954.9
Hydragogs cathartics 615.7324
Hydrations
in organisms 612.01536
mesology 612.0144612
Hydraulic
brakes gun mounts 623.43563
elevators engineering 621.8774
lib. bldgs 022.954
engin mech. engin'g 621.25
physics 532.82
engineering 627
sanitary 628
giant engineering 621.269
machinery 621.26
mining engineering 622.32
motors " **621.2**
press " 621.266
physics 532.82
pressing printing 655.33
ram engineering 621.27
Hydraulics science 532
Hydrazo bodies chem. 547.8

Hydrocarbons " **547.2**
mineral. 549.8
Hydrocele diseases 616.68
Hydrocephalus " 616.82
Hydrocharideæ botany 584.11
Hydrochloric acid physiol. 612.3233
Hydrodynamics
physics **532.5**
water engins **621.2**
Hydroelectric plants 621.312134
Hydrogen
carburetted pub. helth 614.722
chemistry 546.11
Hydrogeology 551.92
Hydrografy surveying 526.99
Hydroidæ zoology 593.71
Hydrokinetics **532.5**
Hydrology **551.46**
Hydrolytic ferments
physiologic chemistry 612.01512
Hydromechanics **532**
Hydromedusæ zoology 593.71
Hydrometry
specific gravity chem. 542.33
physics 532.4
velocity " 532.57
Hydropathy 615.853
Hydrophobia
diseases 616.953
protectiv inoculation 614.477
public helth 614.563
Hydrophyllaceæ botany 583.764
Hydrostatics **532**
Hydrotherapy 615.853
Hydrotimetry chem. anal. 543.3
Hydrous
silicates mineralogy 549.65
sulphates " 549.76
Hydrozoa zoology **593.7**
Hygiene
mental 131
military 613.67
naval 613.68
of air and ground **614.7**
animals pub. helth **614.9**
zootechny 636.0893
occupation **613.6**
pregnancy obstetrics 618.24
travel and exploration 613.69
personal **613**
prison 613.57
public **614**
school education **371.7**
vocal 784.9
Hyginus, C. J. Latin poet. 871.3
Hygrometry meteorology 551.57
Hygroscopic moisture agric. 631.432
Hylozoism metaphysics 146
Hymen anatomy 611.672
Hymenomycetes botany 589.222
Hymenoptera fossils 565.79
insects 595.79
pests 632.79
Hymn tunes music 783.9
Hymnody " 783.9
Hymnology sacred theol. **245**
Hymns Homeric 883.1
hymnology 245
Hyoid bone anatomy 611.7165
muscles " **611.734**
Hyperae-, *see* Hypere-
Hyperbola analytic geom. 516.24
geometry 513.24
Hyperbolic func. calculus 517.36
Hyperboloid analyt. geom. 516.44
Hyperboreans Gk mythol. 292
Hyperdulia Rom. cath. theol. 230.2
Hyperelliptic func. calculus 517.36
Hyperemia diseases 616.1
Hyperesthesia " 616.856
physiology 612.887
Hypericineæ botany 583.162
Hyperides Gk oratory 885.7
Hypermetamorphosis zool. 591.35
Hypermetropia physiol. 012.8452
Hypertrophies skin dis. 616.54
Hypnotics therapeutics 615.782
Hypnotism mesmerism 134
phys. psych 612.82171
Hypoblast embryology 611.01337
Hypochondria
medicin 616.852
mental disease 132.3
Hypodermic injections med. 615.63
Hypogastric
glands anatomy 611.4651
nervs " 611.839
region " 611.957
veins " 611.1471
Hypoglossal
nerv anatomy 611.83193
physiology 612.81993
nucleus anatomy 611.8189
Hypopharynx " 611.3273
Hypophysis " 611.8143
physiology 612.492
Hypothalamus anatomy 611.8141
Hypotheses logic 167

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Hypothesis, nebular 523.12
Hypothetic
[3] sentences Eng. gram. 425.4
Hypsometry phys. geog. 551.53
Hyracoidea mammals 599.6
Hyrax " 599.6
Hyrcania ancient history 939.62
Hysteria diseases 616.852
Hysterics ment. derange. 132.5
Hysterology 425.3
Hysterotomy obstetrics 618.86

I beams engineering 620.11282
I.W.W. labor organizations 331.88
Iamblichus Greek philos. 186.4
Iberia, Asia anc. hist. 939.54
[1]Iberville co. Que. hist. 971.461
Ibsen, Henrik Dan. dram. 839.8266
Ice
age geology 551.79
breakers shipbilding 623.828
dealers trades 689
erosion and deposition 551.3
formation of 551.57
frost geologic agents 551.91
houses architecture 728.97
impure hygiene 613.32
manufacture 621.58
meteorology 551.57
packing for the ded 614.64
sports 796
trade economics 338.3
Icebergs physical geog. 551.34
Icecream dom. econ. 641.86
Iceland
discovery Scand. hist. 948.02
[1] **history 949.1**
[4] **language 439.6**
[5] **literature 839.6**
sheep 636.372
Ices domestic economy 641.86
Ichneumonidae pests 632.79
zoology 595.79
Ichnology paleontology 566
Ichthyology 597
Ichthyopterygia reptils 598.15
Iconoclasts heathen art 246.3
Iconografy 730
Christian 246
Iconology emblems 246.5
Icterus diseases 616.36
pediatrics 618.9
physiology 612.35765
[1]Ida co. Ia. history 977.742
Idaho U. S.
admission U.S.hist. 973.86
[1] history 979.6
mil. hist. U.S.civ.war 973.7496
war with Spain 973.89496
Ideal state pol. sci. 321.07
Idealism philos. system 141
Idealistic painting 753
Idealized dance music 786.45
Ideals, library 021.03
for special places 021.04
Ideas, innate psychology 156

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Identity, mistaken law 347.94
personal 126
Idiocy 132.2
Idiom neutral univ. lang. 408.9
[3]Idioms Eng. language 423.1
Idiosyncrasies, mental 137
Idiosyncrasy
influence of therapeu. 615.57
Idiots
asylums 362.3
architecture 725.53
child study 136.7622
schools 371.92
Idleness ethics 179.8
Ido univ. lang. 408.9
Idolatry nonchrist. relig. 290
Idumæa ancient history 939.46
Idyllic orchestral music 785.3
vocal music 784.3
Iffland, A; W; Ger. drama 832.65
Iglesias de la Casa, J. 861.47
Igneous rocks lithology 552.1
Ignition devices gas engins 621.437
Iguanodon fossils 568.19
Ihre, Johan Swed. miscel. 839.7843
Iland of Reil anat. 611.81319
Ilands
isolated history 997
of Langerhans anat. 611.377
physiol. 612.349
physical geografy 551.42
for special ilands *see* name
Iliac
arteries anatomy 611.137
glands " 611.4651
muscle " 611.73812
veins " 611.147
Iliad Greek epic poetry 883.1
Ilicineæ botany 583.269
Ilio-
cecal valv anatomy 611.3451
costal muscle " 611.73131
femoral ligament " 611.7282
hypogastric nerv, great 611.83541
inguinal nerv anat. 611.83542
psoas muscle " 611.73811
Ilium " 611.344
bone " 611.71811
[1]Ille et Vilaine, Fr. hist. 944.15
Illecebraceæ botany 583.912
Illegal
practises legislation 328.367
voting suffrage 324.272
Illegitimacy law 347.6
Illinois, U. S.
admission U. S. hist. 973.54
[1] **history 977.3**
For military history, see 973.52473, 973.7473 and 973.89473
travel 917.73
Illiteracy public schools 379.2
spelling reform 421.4
suffrage 324.14
Illuminated books 096
manuscripts 091
Illuminati society 366.4
Illuminating
apparatus microscopes 578.5
engineering 628.9
gases air pollution 614.723
chem. tech. 665.7
inspection of 614.835
Illumination
decoration 745
electric 537.83
engineering 621.32
engineering 628.9
house lighting 644.3
instruments, astronomy 522.55
microscopy 578.5
sacred ornamentation 247.4
Illusions, mental 133.2
optic physiology 612.84374
sensory " 612.82189
Illustrated books rarities 096
Illustrations
of books printing 655.32
publishing 655.53
rare 096
Illustrativ
material Great war 940.49
U.S. civ. war 973.79
Mex. " 973.629
revol. " 973.39
war 1812 973.529
orchestral music 785.2
Illyria ancient history 939.87
antiquities 913.3987
Image worship idolatry 290
Images in churches eccles. 246.3
Imaginaries, calculus of 517.8
Imaginary
books 098
expressions algebra 512.24
imprints 014
quantities algebra 512.24

Imagination
in art 701
science 501
influence on body 615.851
mental faculties 155
physiologic psychology 612.8212
Imbecility ment. derange. 132.2
Imbecils, *see* Idiots
Imbibition physiology 612.381
Imitation education 370.15
Immaculate conception
of Christ 232.1
Mary 230.2
Immersion
baptism 265.1
baptist doctrins 230.6
sects 286
Immersionists sects 286
biografy 922.6
Immigrants colonies 325.1
Immigration 325
Immoral
art ethics 176.7
literature lib. exclusion 025.217
restriction 024.674
Immortality
conditional 237.3
doctrinal theology 237.2
metaphysics 128
natural theology 218
of animals 591.51
Immunity against venoms 612.3143
diplomatic 341.7
legis. prerogs. 328.348
Impact engineering 620.1125
Impeachment
administration 351.99
constitutional law 342
criminal law 343
legislativ investigation 328.345
procedure 328.3791
Imperfections crystallog. 548.4
zootechny 636.08115
Imperial
federation Great Britain 354.4201
robes ceremonies 394.4
Imperialism pol. sci. 321.03
Implements
agricultural 631.3
domestic labor savers 643.6
kitchen 643.3
laundry 648.1
ordnance 623.463
primitiv 571
Implied powers pol. sci. 328.253
Imponderable remedies ther. 615.83
Importance
of labor polit. econ. 331.013
Importation
duty free for colleges 337.8
libraries 021.861
of books lib. economy 025.221
Imports commerce 382
duty on 337
Imposition printing 655.27
Impostors humbugs 133.7
Impotence diseases 616.69
Impoverishment of soil 631.45
Imprecations ethics 179.5
Impregnation physiology 612.63
zootechny 636.082454
Impressionist painting 759.9
Impressment, military 355.22
of seamen 359
Imprints, fictitious 014
Imprisonment punishm'ts 343.2
Improvisation org. music 786.87
Impulse
of water hydraulics 532.58
physiologic psychology 612.82134
turbins water motors 621.247
Impure ice hygiene 613.32
Impurities
butter 637.26
foods public helth 614.3
milk 637.16
of well water hygiene 613.32
waterworks 628.16
Inability, human theol. 233.4
Inanition animal heat 612.543
nutrition 612.391
Inarching agric. 631.5416
Inaugurations ceremonies 394.4
Inbreeding zootechny 636.08241
Incandescence heat 536.45
Incandescent
lighting elec. eng. 621.326
gas 628.9
vapor lighting elec. eng. 621.327
Incantations 133.4
Incapacity suffrage 324.171
Incarnation Christology 232.1
Incas history 985
Incendiary devices mil. eng. 623.45431
Incense ecclesiology 247.9
Incest crim. law 343
physiology 612.607
Inchbald, Mrs E.. Eng.dram. 822.67

Incineration
of ded public helth 614.62
garbage san. engin'g 628.44
Incised wounds surgery 617.141
Inclination of equat. to eclip. 525.51
Inclined
marine engins 621.1224
plane canal engin'g 626.5
machines 531.85
steam engins 621.11246
Inclines railroad engin'g 625.3
Inclosed arc elec. lighting 621.32543
Income
public finance 336
student 378.36
tax finance 336.24
law decis. U.S.hist. 973.87
Incompetency suffrage 324.171
Incomplete
coalescence deform. 617.32
development " 617.31
Increase plant culture 631.5472
Incrustation
architectural decoration 729.6
steam boilers 621.1944
Incubation zootechny 636.08247
Incubators " 636.082474
Incunabula book rarities 093
Incurables
hospitals for 362.1
architec. 725.51
Incus anatomy of ear 611.857
Indelible inks chem. tech. 667.4
Indemnity internat. law 341.3
Independence, Am. U.S.hist. 973.313
day schools 371.365
Independency ch. polity 262.8
Independent angles geod. 526.51
Independents sects 285.9
Indeterminate
equations algebra 512.23
forms calculus 517.22
Indeterminism
mental faculties 159
Index
error prac. astronomy 522.38
expurgatorius rarities 098
making literary meth. 029.5
rerums " " 029.5
Indexes biblical concord. 220.2
see subject indext
India
administration 354.54
India
antiquities ancient 913.34
modern 913.54
architecture 720.954
ancient 722.4
Mohammed. 723.3
botany 581.954
[1] **British history 954**
[1] **Farther " 959**
finance 336.54
geology 555.4
history, ancient 934
[1] **modern 954**
maps 912.54
rubber manufactures 678
schools, public 379.54
statistics 315.4
travel 915.4
other topics see table 1
Indian
[1] **archipelago history 991**
bureau U. S. admin. 353.3
corn agriculture 633.15
cress 635.566
depredations Am. revol. 973.3344
[4] **East, languages 491.1**
modern languages 491.4
fig 634.7754
game poultry 636.58814
goose 636.59886
hemp 633.567
legends 398.2
missions 266
mortality pub. helth 614.144
mutiny Sepoy rebellion 954
ocean physical geog. 551.467
travels 910.4
philosofers 181.4
pony 636.168
religions 299.7
runner duck 636.59722
[1] territory, U. S. history 976.6
Indian wars in U. S.
eastern 973.24
French and indian 973.26
Harmar's expedition 973.42
King Philip's 973.24
William's 973.25
Modoc 973.82
Pequot 973.22
Queen Anne's 973.25
St Clair's expedition 973.42
Seminole, first, 1818 973.541
2d, 1835–42 973.571

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Indiana, U. S.
admission U. S. history 973.51
[1] **history** **977.2**
For military history see 973.52472, 973.7472 and 973.89472
travel **917.72**
[1]Indiana co. Pa. hist. 974.889
[1]Indianapolis, Ind. " 977.252
Indians, American **970.1**
biografy 970.2
British allies Am. revol. 973.343
U.S.war 1812 973.5242
education of 371.975
ethnology 572.897
language 497
literature 897
Y. M. C. A. 267.366
[4]**Indic languages** **491.1**
Indicators
library economy 025.6
steam power plants 621.1977
Indictments criminal law 343.1
[1]**Indies, East, Dutch hist.** **991**
travel **919.1**
Indifference lib. staf rules 023.96
Indigestion medicin 616.33
Indigo chem. tech. 667.2
Idiosyncrasy psychology 137
Indirect heating chem. 542.46
voting suffrage 324.249
Indium chemistry 546.67
Individual
instruction education 371.394
legislators restrictions 328.343
rights pol. sci. **323.4**
soul, origin of 129
Individualism pol. econ. 330.1
sci. 323.4
Individuals
and the state 172.1
bibliografy 012
Indo-
European languages,minor **491**
literatures " 891
Germanic " " 491
Indoor amusements **793**
grafting 631.5418
servis dom. econ. 647.25
Indorsement law 347.4
[1]Indre, France hist. 944.55
[1] et Loire, France " 944.54
Induced draft steam eng. 621.18384
Induction
balance electricity 537.24
coil physics 537.51
coils elec. engin'g 621.3147
telefone 621.3864
generators elec. eng. 621.31363
logic 160
magnetism 538.2
motors elec. engin'g 621.31364
of labor obstetric oper. 618.88
potential regulators 621.31452
reasoning faculty 153.6
spark electricity 537.52
telegrafy elec. eng. 621.38294
Inductiv logic 161
sciences **500**
Indulgencies Roman ch. 282
doct. 230.2
Industrial
arbitration 331.1
arts **600**
classes political econ. **331**
depressions " " 338.8
diseases, *see* Occupations
drawing 744
economy- **330**
education **371.42**
exhibitions 606
history 609
insurance **368**
legislation political econ. 338.9
museums 606
nuisances law 347.5
public helth 614.7
sanitation **628.5**
schools **607**
statistics political econ. **331**
workers of the world 331.88
Industries chemic tech. **660**
mil. resources **355.26**
primitiv **571**
useful arts **600**
Industry ethics 179.9
Inebriate asylums archit. 725.65
Inebriate asylums 362.8
Inebriates temperance 178.6
Inebriety diseases 616.861
Inequality, diurnal, of tides 525.63
Infallibility
divine 231.6
of the church 262.8
papal eccles. polity 262.13
Roman doctrin 230.2

Infallibility
Roman church 282
schism Old catholics 284.8
Infancy, psychology of 136.72
Infant
baptism 265.1
education elemen. educ. 372
mortality public helth 614.132
ration physiology 612.3942
salvation 234
therapeutics 615.54
Infantado sheep 636.364
Infanticide
customs 392.2
ethics 173.4
law 343
Infantil paralysis diseases 616.83
pub. helth 614.54
Infantalism pediatrics 618.9
Infantry army 356
Infants
care of 618.6
diseases of 618.9
food for hygiene 613.22
nursery 649.3
stillbirth obstetrics 618.39
vital statistics 614.131
Infections
etiology 616.01
function of spleen 612.416
protection agst san. eng. 628.513
public helth 614.4
Infectious diseases
of domestic animals 614.91
pathology 616.91
public helth 614.4
special 614.5
Infernal machines manuf. 662.2
Inferno lib. economy 024.674
Infidelity natural theol. 211
Infiltration
of water mining eng. 622.51
Infinit metaphysics 125
Infinitesimal calculus 517.1
Infinitiv English syntax 425.8
Greek " 485.8
Latin " 475.8
[3] other languages
Infirm, care of dom. econ. 649.8
Infirmaries architecture 725.51
hospitals 362.1
school bldgs 371.625
Inflammation physiology 612.556
surgery 617.22
Inflammatory affec. of skin 616.51
Inflation
apparatus aeronautics 629.161
paper money 332.5
[3]Inflection English philol. 425.1
Influence
civil servis reform 351.6
educ. of phys. training 371.731
of college education 378.01
on women 376.64
kindergarten 372.22
personal, of teachers 371.102
sectarian pub. schools 377.1
Influenza diseases 616.203
public helth 614.5
Infraorbital nerv anat. 611.831542
Infraspinatus muscle " 611.73713
Infundibula " 611.639
Infundibulum anat.of brain 611.8143
Infusoria zoology 593.15
Infusorial earth econ.geol. 553.69
petrografy 552.57
Ingemann, B. S. Dan.poet. 839.8162
Ingenuity inventions 608
Ingersoll, C: J. Am.drama 812.24
[1]Ingham co. Mich. history 977.426
Ingram's rebellion Va. hist. 975.5
Inguinal glands anat. 611.4681
Inhalation
administrat'n of med. by 615.64
of dust hyg. of occupat'n 613.63
gases " " " 613.62
Inheritance law 347 6
of soul metaph. 129.2
tax 336.27
see also Heredity
Inherited
disease hygiene 613.93
mental disability " 613.92
traits 136.3
Inhibition
nervous system 612.8011
physiologic psychology 612.82134
Initials bibliografy 014
decoration 745
Initiativ democracy 321.4
pol. sci. 328.261
Injection pumps hyd. mach. 621.267
Injections
collectors manuals 579.3
hypodermic 615.63
intra-uterin obstetrics 618.89
medicin 615.6
physiology 612.11812

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Injectors steam engin'g 621.1973
Injured, aid to, protec. of life 614.88
Injuries
agriculture 632
effects of diseases 616.98
results of surgery 617.2
surgery 617.1
to library books rules 024.8
shelf dept 025.8
torts 347.5
Injurious
animals agriculture 632.6
zoology 591.65
insects agriculture 632.7
occupations hygiene 613.6
plants agriculture 632.5
botany 581.65
Ink, colord, for books 655.26
manufacture 667.4
Inland
navigation engineering 626
transportation 656
quarantine pub. helth 614.462
seas physical geografy 551.48
tides on 525.66
Inlay architec. decor. 729.63
art furniture 749
Inlets sewerage 628.255
Innate ideas 156
Innervation
center of physiology 612.834
of hart " 612.178
iris " 612.81931
large intestin " 612.368
liver " 612.358
lungs " 612.28
lymphat. syst. " 612.425
uterus " 612.6278
vesical appar. " 612.4673
theories " 612.801
Innominate artery anat. 611.1325
veins " 611.145
Innominatum, os " 611.7181
Inns
architecture 728.5
domestic economy 640
of court English law 340.7
Inoculation
budding 631.5415
protectiv public helth 614.47
Inorganic
and organic matter, differ. 577.1
chemistry 546
of soil 631.416
Inorganic
drugs materia medica 615.2
liquids physical chem. 541.326
substances, analysis of 543.7
Inquests, coroners
Inquiries
parliamentary legislation 328.372
Inquisition persecut. by 272.2
Span. hist. 946.04
Insane
asylums architecture 725.52
criminal law 340.6
hospitals 362.2
lives of 920.8
Insanity law 347.1
mind and body 132.1
nervous diseases 616.8
Inscriptions, comparativ 417
[3] Eng. language 421.7
Insect powders 648.7
Insecta parasitica
ectozoa 616.9681
entozoic diseases 616.967
Insecticides agriculture 632.951
dom. econ. 648.7
Insectifuges " " 648.7
Insectivora mammals 599.3
Insects
fertilization of plants 581.16
injurious agriculture 632.7
library econ. 025.8
zoology 591.65
metamorphosis embryol. 591.34
variation 591.151
paleontology 565.7
productiv agriculture 638
zoology 595.7
Insessores birds 598.8
Insignia, college 378.27–.29
heraldry 929.6
military 355.13
Insolvency law 347.7
Insomnia disease 616.84
hygiene 613.86
Inspection of
bildings 614.85
elections suffrage 324.26
explosivs, etc. 614.83
fertilizers 631.818
food, etc. pub. helth 614.3
ordnance stores 623.4821
Inspiration Bible 220.1
Installation of ministers 262.16
sermons 252.6

Instantaneous boilers 621.18427
Instinct comp. physiol. 612.821313
physiol. psych. 612.8213
psychology 158
zoology 591.51
Instinctiv knowledge 158
Institute of France 064
Institutes
farmers 630.715
library training 020.715
Roman law 349.374
self education 374.9
teachers 370.72
workingmen's architec. 725.93
Institutions
Christian 260
educational 370
feudal 321.3
housekeeping 647.96
monarchic 321.6
musical 780.7
of credit pol. economy 332.31
state control 351.825
patriarchal 321.1
republican 321.8
sociology 360
Instruction
education 370
methods 371.3
organ 786.7
piano 786.3
public worship 264.6
rooms lib. bildings 022.65
Instructions
legislativ restrictions 328.249
Instrumental
errors prac. astron. 522.98
music 780
pub. worship 264.2
Instrumentation music 781.6
Instruments
astronomic 522
chronologic 529.78
drawing 744
engineering 620.7
engraving 760
geodetic field work 526.33
making 681
mathematical 510.8
musical 780
optic 535.87
ordnance 623.462
physical 530.8
Instruments
steam power plant 621.1977
surgical 617.91
surveying 526.91
telefone communication 654.6
elec. engin'g 621.386
telegraf communication 654.1
elec. eng. 621.383
wireless telefone 621.3846
telegraf 621.3843
for other purposes see subject
Insula anatomy 611.81319
Insular
faunas zoology 591.91
floras botany 581.91
Greece history, ancient 939.1
[1] **modern 949.9**
Insulated conductors 621.31933
Insulating materials
bilding 691.9
electric engineering 621.31937
steam transmission 621.1856
Insulators
electric engineering 621.3194
lighting 621.3285
Insurance 368
animal zootechny 636.08175
bildings architecture 725.23
compulsory pol. econ. 331.25
farm economics 631.175
law 368
library 022.27
societies, cooperativ 334.3
state control 351.825
teachers 371.17
Insurgente, L'ship U.S.hist. 973.45
Insurrections
internal relations 323.2
Intaglios sculpture 736
Intarsia arch. decoration 729.63
Integral calculus 517.3
Integrity business ethics 174
Integument comp. anat. 591.49
descrip. " 591.79
Integumentary system
anatomy 611.7
surgery 617.47
Intellect 151
Intellectual
development education 370.1
history 809
influence of church 261.5
relation of church 377.8

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Intellectual
functions physiol. psych. 612.821
physiology 612.8258
life self education 374
philosofy 150
property, *see* Copyright; Patents
Intelligence
action of poisons on 612.8214
mental science 151
of animals 591.51
offis domestic econ. 647.2
physiologic psychology 612.8213
Intemperance ethics 178
hygiene 613.8
Intensity meters elec. eng. 621.3744
Intensiv farming 631.583
Interbrain anatomy 611.814
Intercalatum " 611.81541
Intercarpal articulation " 611.7275
Intercepting sewers 628.28
Interchondral joints anat. 611.723
Intercollegiate
contests, athletic 371.75
literary 371.535
Intercolumnar fascia anat. 611.639
Intercommunicating
systems telefony 621.3853
Intercommunication
sociology 380
useful arts 650
Intercostal
arteries anatomy 611.1354
glands " 611.4643
muscles " 611.7356
nervs " 611.8342
Intercuneiform joints anat. 611.72858
Interdicts excommunicat'n 262.9
labor strikes 331.894
Interest
and usury law 347.7
calculation of arithmet. 511.8
physiologic psychology 612.8212
political economy 332.8
securities finance 336.31
tables business manuals 658
Interests
electoral representation 324.22
relations to Great war 940.318
Interference optics 535.4
Interior
decoration 747
department U. S. adm. 353.3
of earth geology 551.11
walls, incrusted architec. 729.62
[3]Interjections Gk syntax 485.9
Interlibrary loans 024.68
Interlude Eng. drama 822
Interludes organ music 786.84
Intermarriages
of families hygiene 613.94
races ethics 173.1
Intermediate
education, private 373
public 379.17
school admission standards 371.211
state theology 236.4
Interment customs 393.1
public helth 614.61
Intermetacarpal joints 611.7277
Intermetatarsal joints 611.7287
Intermittent fever
pathology 616.936
public helth 614.531
Intermolecular forces, phys. 539.6
Internal
affairs U.S. administration 351.73
capsule anat. 611.8137
combustion engins 621.43
ear anat. 611.851
diseases of 617.88
physiology 612.858
heat geology 551.12
improvements 620
plastering masonry 693.6
relations polit. science 323
revenue laws finance 336.27
windows arch. const. 721.85
International
arbitration 341.6
association, the 335.4
coinage 332.43
congresses 341.1
on special topics see subject
copyright private law 341.5
publishing 655.63
ethics 172.4
exchange money 332.45
exchanges lib. econ. 021.852
exhibitions 606
law 341
library loans 024.681
meetings 020.681
relations pol. science 327
standard money 332.43
Internationalism
international law 341.1
political science 321.041

Interoceanic canals eng. 626.9
sociol. 386
Interolivary stratum anat. 611.8184
Interosseous
artery, dorsal anat. 611.13794
muscles of foot " 611.7387
hand " 611.73779
Interpolation
methods calculus 517.6
spheric astronomy 522.75
Interpretation
of law legislation 328.21
[3]Interrogativs Lat. syntax 475.9
Interschool
contests, athletic 371.75
literary 371.535
Intersecting
lines plane geometry 513.12
planes solid geometry 513.32
surfaces descrip. " 515.18
Interspinales muscles anat. 611.73171
Interstate commerce
commission 385
law sociology 385
U. S. hist. 973.85
Intersternal joints anat. 611.723
Intertarsal ligaments " 611.7285
Intertransversarii mus. " 611.73176
Intertubular cell masses
pancreas 611.377
Intervention internat. law 341.6
Intervertebral joints anat. 611.7213
Intestinal action of bile 612.3572
Intestins
anatomy 611.34
comparativ anatomy 591.43
pathology 616.34
physiology 612.33
surgery 617.43
sympathetic system 612.898
Intimidation
electoral corruption 324.271
labor strikes 331.891
Intolerance
religious ethics 172.3
persecutions 272
Intonation music 781.2
Intoxicants, *see* Alcohol; Liquors; Stimulants
Intoxicating drinks, traf. in 178.4
Intoxication alcoholism 616.861
ethics 178.1
Intoxications
effect on respiration 612.226
Intramural interment 614.613
Intransigentes Span. hist. 946.08
Intraocular pressure physiol. 612.8426
Intrapleural " " 612.212
Intra-uterin injections 618.89
Intrenchments mil. eng. 623.15
Intubation
of larynx surgery 617.42
Intuition ethics 171.2
Intuitionalism phil. syst. 143
Intuitiv faculty 156
philosofy 143
Inundations
agriculture 632.17
meteorology 551.48
protection engineering 627.4
Inusitum nutrition 612.39619
Invalids
care of dom. econ. 649.8
charities 362.6
cookery for dom. econ. 641.563
diet hygiene 613.23
medicin 616
Invariants algebra 512.88
Invasion internat. law 341.3
Invention of printing 655.11
rhetoric 808.5
Inventions bilding 690.8
patents 608
Inventors biografy 926
Inventory, closing lib. for 024.45
[1]Inverness, Scot. history 941.21
[1] co. N. S. " 971.691
Inverse probabilities 519.1
Inversion of uterus in labor 618.57
Invertebrates paleontol. 562
zoology 592
Investigation
legislativ disciplin 328.366
Investigations administra. 351.98
Investiture eccles. polity 262.16
Investitures, war of 1074–84 270.4
Investments 332
Invincible armada, Span. hist. 946.04
Invocation of saints & angels 264.1
Invoices accounts 657
Involution algebra 512.7
arithmetic 511.7
mod. geom. 513.53
Inward flow turbins 621.244
[1]Inyo co. Cal. hist. 979.487
Iodids mineralogy 549.4
Iodin chemistry 546.15
compounds, min. 549.4

[1]Iona co. Mich. history 977.454
Ionia history, ancient 939.23
[1] " modern 956.2
Ionic Greek dialects 487.923
order of architecture 729.32
philosofy 182.1
Ions chemistry 541.2
physiology 612.0144624
[1]Iosco co. Mich. history 977.474
Iowa, U. S.
admission U. S. hist. 973.61
[1] **history** **977.7**
For military history see 973.52477, 973.7477 and 973.89477
[1] co. Ia. history 977.765
[1] Wis. " 977.578
Ipecac emetics 615.731
Iranian languages **491.5**
Ireland
administration **354.41**
antiquities **913.415**
architecture **720.9415**
botany **581.9415**
colleges 378.415
constitutional law **342.41**
education **370.9415**
finance **336.415**
geology **554.15**
[1] **history** **941.5**
laws **349.41**
maps **912.415**
religious history **274.15**
schools, public **379.415**
statistics **314.15**
travel **914.15**
zoology **591.9415**
other topics see table 1
Ireland forgeries
Shakspereana 822.33
Irideæ botany 584.24
Iridium chemistry 546.93
Iris
anatomy 611.8421
eye diseases 617.72
motoroculi nerv physiol. 612.81931
physiology 612.842
sympathetic system 612.896
Irish
bards lives 928.9162
bulls Eng. humor 827
cattle, beef 636.2232
dairy 636.2256
church, Anglican 283.415
Roman catholic 282.415
Irish
discovery of America 973.11
goat 636.392
home rule history 941.58
polit. parties 329.942
land question pol. econ. **333**
[4] **language** **491.62**
literature **891.62**
music 784.4
politics 329.9415
Romanesque architec. 723.41
sheep 636.3243
Iron
age prehist. arch. 571.4
architecture **721.9**
assimilation physiology 612.3924
bearing waters geol. 553.73
bilding material 691.7
bridges, archt 624.67
engineering **624**
chemistry **546.72**
clads naval architec. 623.9
colums architecture 721.35
[1] co. Mich. history 977.497
[1] Mo. " 977.888
[1] Wis. " 977.522
manufacture 672
mask, man in biog. 920.8
materia medica 615.272
metallurgy 669.1
mineralogy **549**
mining 622.34
ores econ. geology 553.3
piers architec. 721.35
pipes waterworks 628.16
roofs bilding 695.5
ships 623.84
strength of materials 620.17
structures architec. **721.9**
sulfate of fertilizers 631.825
water pipes san. eng. 628.15
work manufactures 672
ornamental 739
architec. **729.5**
wrought arch. construc. 721.92
Ironing laundry process **648.4**
[1]Ironton, O. history 977.1881
Irony rhetoric 808
[1]Iroquois co. Ill. history 977.364
indians 970.3
Irradiation of eye physiol. 612.8432
Irregularities crystallog. 548.4

Irrigation
agriculture 631.7
canal engineering 626.8
sewage 628.36
Irritability
cardiac physiol. 612.172
in plants botany 581.18
muscular physiol. 612.7416
of cells " 612.01431
nervs " 612.816
Irritant poisons therapeu. 615.91
Irritants, external " 615.771
Irritation, spinal diseases 616.844
Irving, Washington lit. 817.24
Irvingism Cath. apostolic 289.5
Isaac 1 Byzantine history 949.503
Isabella of Castile Span.hist. 946.07
2 " " 946.07
[1]Isabella co. Mich. " 977.451
Isaeus Greek oratory 885.3
Isaiah Bible 224.1
Ischium anatomy 611.71812
[1]Isère, France hist. 944.99
[1]Ishpeming, Mich. " 977.496
Isla, J. F. de Span. satire 867.42
Islam Mahometanism 297
Island
nr 10, Ky. U.S. civ. war 973.752
of Reil anatomy 611.81319
Islands, *see* Ilands
[1]Isle de France history 944.34
[1] of Man, Eng. " 942.89
[1] Wight " " 942.28
[1] Royale co. Mich. " 977.499
[1]Isles of Shoals " 974.2
travels 917.42
Isocrates Gk oratory 885.4
Isoeteæ botany 587.1
Isogonic lines 538.7
Isografy 652
Isolation in contag. disease 614.45
Isomerism chemistry 541.7
Isometric projections geom. 515.2
Isomorphism crystallog. 548.3
Isothermal lines physiog. 551.52
Isotony
of corpuscles physiol. 612.11117
Israelites history, ancient 933
modern 296
Issues therapeutics 615.812
Isthmian games Gk antiq. 913.38
Istle fibers 633.5772
Istria history, ancient 937.3
[1] modern 943.68
Itacolumite lithology 552.45
Italian
art galleries 708.5
cheese, hard 637.3545
soft 637.3535
discovery of America 973.11
grand opera 782.5
[4] **language** 450
[5] **literature** 850
painting 759.5
philosofers biografy 921.5
philosofy 195
poultry 636.55
republics aristocracies 321.5
republics history 945.04
Romanesque architec. 723.45
school of Gk philosofy 182.2
sculpture, medieval 734
modern 735
sheep 636.35
swine 636.45
Italic languages, minor 479
Italy
administration 354.45
antiquities 913.45
architecture 720.945
botany 581.945
colleges 378.45
constitutional law 342.45
education 370.945
finance 336.45
geology 554.5
heraldry 929.6
history, ancient 937
[1] **modern** 945
laws 349.45
maps 912.45
peerage 929.75
reformation in 274.5
religious history 274.5
schools, public 379.45
statistics 314.5
titles of honor 929.75
travel 914.5
treaties 341.245
zoology 591.945
other topics see table 1
Itch parasitic diseases 616.9685
Ithaca, Greece anc. hist. 938.3
Itinerant cookery 641.577
Iturbide 1 Mexican history 972.04
Ivan 3 Russian " 947.04
4 " " 947.04
5 " " 947.04

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Ivory carving 736
[1]Coast, Africa hist. 966.6
painting 751
supply 679
Ivy landscape gardening 716.1
Ixodidæ arachnida 595.4
Ixtle fibers 633.5772

Jackass 636.182
Jacketed bullets sm. arms 623.45532
guns ordnance 623.42162
Jacketing ordnance 623.4234
steam engin'g 621.1011
Jackets clothing 646.45
Jacks, lifting mech. eng. 621.869
Jackson, Andrew presidency 973.56
[1]Jackson city Mich. history 977.428
[1] co. Ill. " 977.3994
[1] Ind. " 977.223
[1] Ia. " 977.764
[1] Mich. " 977.428
[1] Mo. " 977.841
[1] O. " 977.185
[1] W. Va. " 975.431
[1] Wis. " 977.551
travel 917.7551
[1]Jacksonville, Ill. history 977.346
Jacobins French " 944.04
monastic orders 271.2
pigeons 636.59625
political clubs 363
Jacobite church 281.5
Jacobites Eng. pol. party 329.942
Jacotot's system of educ. 371.45
Jacquerie French history 944.025
[1]Jacques Cartier co. Que. hist. 971.4285
Jade mineralogy 549.61
Jail fever pathology 616.922
pub. helth 614.526
Jails architecture 725.62
prisons 365
Jaina architecture 722.4
Jainas Hindu sect 294
[1]Jalisco, Mexico history 972.3
[1]Jamaica " 972.92
apple 634.413
Jambs arch. construc. 721.86
James, St epistle 227.91
1 Eng. history 942.061
2 " " 942.067
1-5 Scot. " 941.04
1 of Aragon
Catalan miscellany 849.9811
Henry Am. fiction 813.46
Jamestown, Va. U. S. hist. 973.21
[1] Va. " 975.5
Jamrosade 634.422
Jan 1 van Brabant
Dutch poetry 839.3113
[1]Janesville, Wis. history 977.587
Janin, J. G. Fr. essays 844.76

Janitor library econ. 023.791
servis dom. econ. 647.25
lib. econ. 023.79
Janitor's
apartment lib. bldgs 022.695
department admin. 025.9
Jansenism heresy 273.7
Japan
administration 354.52
botany 581.952
chemic technology 667.8
chestnut 634.533
clover 633.364
fauna 591.952
finance 336.52
geology 555.2
[1] history 952
maps 912.52
persimmon 634.451
plum 634.16
schools 379.52
statistics 315.2
travel 915.2
treaties 341.252
walnut 634.513
Japanese
architecture 722.1
art 709.52
bantams 636.58715
color prints 761
language 495
poultry 636.5857
servants dom. econ. 647.24
wineberry 634.712
Japanning varnishing 698.3
Jars electric engineering 621.3521
Jasher, book of 229
Jasmin, J. Provençal poet. 849.143
Jasmin perfume plants 633.811
[1]Jasper co. Ill. history 977.374
[1] Ind. " 977.297
[1] Ia. " 977.759
[1] Mo. " 977.872
Jaumave istle 633.5772
Jaundis diseases 616.36
physiology 612.35765
Java
fowls 636.5814
[1] iland history 992.2
travel 919.22
ship U.S.war of 1812 973.5251
Jaw bone diseases 616.71
lower anat. 611.7164
upper " 611.7161
Jaw joint anatomy 611.724
diseases 616.72
surgery 617.52
[1]Jay co. Ind. history 977.267
Jay's treaty U.S. hist. 973.43
Jealousy ethics 179.8
Jean de Tuim Fr. fiction 843.22
Jeanne d'Arc " hist. 944.026
[1]Jeddo history 952
travel 915.2
Jefferson, T: presidency of 973.46
[1]Jefferson city, Mo. history 977.8551
[1] co. Ill. " 977.3793
[1] Ind. " 977.213
[1] Ia. " 977.794
[1] Mo. " 977.867
[1] N. Y. " 974.757
O. history 977.169
[1] Pa. " 974.862
[1] W. Va. " 975.499
[1] Wis. " 977.585
[1]Jeffersonville, Ind. history 977.218
Jeffrey, F. Eng. essays 824.73
Jehovah doctrinal theol. 231
Jejunum anatomy 611.343
Jelly fish zoology 593.8
Jelousy ethics 179.8
Jennet
[1]Jennings co. Ind. history 977.217
Jeremiah Bible 224.2
Jeremy, epistle of Bible 229.5
Jerrold, D. Eng. humor 827.81
Jersey blue fowls 636.5812
cattle 636.2243
[1] City, N. J. history 974.927
[1] co. Ill. " 977.385
[1] iland of " 942.34
travels 914.234
prison ship 973.3711
swine 636.483
Jerseys, Washington in the 973.3325
Jerusalem
artichoke field crops 633.494
garden " 635.24
city history ancient 933
[1] " modern 956.9
travels " 915.69
corn cereals 633.178
St John of knights 929.711
Jesters customs 394.2
[5]**Jests Eng. literature 827**
Jesuit missions 266.2
Jesuits religious orders 271.5
tea agric. 633.77

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Jesus
Christology 232
society of relig. order 271.5
Jet economic geology 553.22
pumps prac. chem. 542.9
Jets, steam engin'g 621.69
Jettatura witchcraft 133.4
Jetties engineering 627.6
Jew plum 634.442
Jewelry
customs 391.7
manufacture 671
fine arts 739
toilet 646.48
Jewish
architecture 722.3
calendar 529.3
cookery 641.567
discovery of America 973.11
[4] **language** 492.4
[5] **literature** 892.4
philosofy 181.3
religion 296
Jews
apologetics against 239.2
biografy 922.96
disabilities of 296
ethnology 572.933
history, ancient 933
modern 296
restoration of 296
Jigging mining engin'g 622.75
Jipijapa plant fibers 633.584
[1]Jo Daviess co. Ill. hist. 977.334
Joan of Arc Fr. history 944.026
Job Bible 223.1
Job work
economics 331.231
printing 655.26
Jockeys horse racing 798
Jodelle, Etienne Fr. drama 842.34
Joel Bible 224.7
Johansson, L. Swed. poet. 839.7132
John, King Eng. history 942.033
St epistle 1 227.94
2 227.95
3 227.96
gospel of 226.5
knights of 929.711
Revelation of 228
John 1 French history 944.024
2 " " 944.025
Johnson, A. presidency of 973.81
S: Eng. essays 824.63
[1]Johnson co. Ill. history 977.3996
[1] Ind. " 977.251
[1] Ia. " 977.7655
[1] Mo. " 977.8455
Joinery carpentry 694.6
shipbilding 623.84
Joint
committees, legislativ 328.3627
resolutions legis. proced. 328.377
stock companies law 347.7
Joints
anatomy 611.72
calkt plumbing 696.6
diseases of medicin 616.72
geology 551.84
injuries to surgery 617.47
mechanic engineering 621.88
of wood work carpentry 694.2
physiology 612.75
rail engineering 625.15
riveted engineering 620.11287
plumbing 696.4
rust " 696.6
screw " 696.5
steam pipe 621.1857
toggle machinery 621.825
universal " 621.825
[5]**Jokes English humor** 827
[1]Joliet, Ill. history 977.325
[1]Joliette co. Que. history 971.442
Jolin, J. K. Swed. drama 839.7264
Jonah Bible 224.92
[1]Jones co. Ia. history 977.763
travel 917.7763
shorthand 653.43
Jongleurs French poetry 841.09
Jonson, B. English dram. 822.34
[1]Joplin co. Mo. history 977.8721
Jordan river antiquities 913.33
travels 915.69
Joseph 1 German history 943.051
2 " " 943.057
Joshua Bible 222.2
Joubert, Joseph Fr. essays 844.62
Journalism 070
Journalists, lives of 920.5
Journals mill work 621.821
Journeys round the world 910.4
Jovellanos, G.M.de Span.lit. 868.42
Jubilee singers, Fisk univ. 784.7
Jubilees, military 355.16
Judaism 296
vs christianity 239.2

Judd, Sylvester Am. fic. 813.34
Jude epistle, Bible 227.97
Judea ancient history 933
[1] modern " 956.9
Judges, book of Bible 222.3
law courts 347.97
lives **923.4**
Judgment
mental faculties 153.5
private ecclesias. polity 262.8
theology 236.9
Judicial
chemistry law 340.6
combat " 340.3
control administration **351.94**
corps univ. admin. 378.113
ordeal law 340.3
Judiciary
department U. S. gov't 353.5
electiv law 347.97
Judith Bible 229.2
Juggernaut 299.14
Jugglery 791
Juglandeæ botany 583.973
Jugoslavia history 949.7
Jugular
ganglion anat. 611.89191
glands " 611.4637
vein, external " 611.1452
internal " 611.1451
veins, posterior " 611.1453
Jugurthan war Rom. hist. 937.05
Juice, intestinal physiol. **612.331**
Jujube 634.662
Julian calendar 529.4
Jumpers poultry 636.528
Jumping athletics 613.72
Juncaceæ botany 584.45
Junctions
railroad engineering 625.1
sewers 628.251
[1]Juneau co. Wis. history 977.555
Juneberry 634.741
[1]Juniata co. Pa. history 974.847
Junius letters Eng. satire 827.64
Jupiter astronomy 523.45
mythology 292
[1]Jura, France history 944.47
Jurassic age geology 551.76
Juridic
powers legislation 328.251
theory of state 320.151
Jurisdiction civil trials 347.98
suffrage 324.243
Jurisprudence **340**
medical 340.6
Jurists, *see* Lawyers
Jury trial law 340.4
Justice, *see* Justis
Justification doct. theol. 234.7
Justis ethics 179.9
pol. sci. 323.42
Justises of the peace law 347.96
Jute agriculture 633.54
dom. econ. 646.186
manufactures 677
Jutland cattle 636.2357
swine 636.434
Juvenal Latin satire 877.7
Juvenil
books reading and aids 028.5
see also subject
courts 364
criminals law 343
literature 028.5
mortality pub. helth 614.133
reformatories **364**
Juxta-aortic glands 611.46521

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Kabala Jewish philosofy 181.3
Kabardian sheep 636.385
Kafir agriculture 633.177
[1]Kaffraria, Africa history 968.6
[1]Kafirs " 968.6
Kairin therapeutics 615.75
Kaiser German gov't 354.4305
Kaki 634.451
[1]Kalamazoo city, Mich. his. 977.418
[1] co. " " 977.417
Kale 635.346
Kaleidoscope optics 535.86
Kalendar 529
Kalifs Mohammedanism 297
[1]Kalkaska co. Mich. hist. 977.465
Kalmuck sheep 636.385
Kalmucks description 915
history 950
Kalsomining 698.2
[1]Kamchatka history 957
[1]Kamerun, Africa hist. 967.1
Kames, H: H. Eng. essays 824.62
[1]Kamouraska co. Que. hist. 971.475
Kanawha
[1] co. W. Va. history 975.437
[1] **valley, W. Va. " 975.43**
[1] **Little, W.Va. " 975.42**
[1]Kane co. Ill. history 977.323
Kangaroo zoology 599.2
[1]Kankakee co. Ill. history 977.363
Kansas, U. S.
admission U. S. hist. 973.68
[1] history 978.1
For military history, see subdivisions of Special campains and Military history under 973.7 and 973.89
struggle in U. S. hist. 973.66
[1]Kansas city, Mo. history 977.8411
Kansas-Nebraska bill " 973.66
Kant critical philosofy 142
German " 193.2
Karananian sheep 636.385
Karbo domestic animals 636.293
Karlsefne, T. discov. of Am. 973.13
Karoub fruit culture 634.462
[1]Karput, Asia Turk. hist. 956.6
[1]Kartum, Egypt history 962.6
[1]Kashmir, India history 954.6
Kashmir goat 636.39854
Kaspar von der Röhn 831.35
[1]Kastamuni, Asia Tur. hist. 956.3
Kate, J. J. L. ten Dut. poet. 839.3156
Kearny in New Mexico 973.6231
Kearsarge, ship U. S. hist. 973.754
Keats, John Eng. poetry 821.78
Keeley cure alcoholism 616.861
Keels shipbilding 623.84
[1]Keewatin, Canada history 971.26
travel 917.126
Kellgren, J. H. Swed. poet. 839.7152
Kelpies folklore 398.4
Kelsen, S. T. Danish " 839.8137
Keltic ancient history 936
languages 491.6
Kempis, Thomas à 242.1
[1]Kendall co. Ill. history 977.326
[1]Kennebec co. Me. " 974.16
Kennedy, J: P. Am. fic. 813.32
[1]Kenosha city, Wis. hist. 977.599
[1] co. Wis. " 977.598
[1]Kent co. Del. " 975.14
trav 917.514
[1] England hist. 942.23
[1] Md. " 975.236
[1] Mich. " 977.455
[1] N. B. " 971.522
[1] Ont. " 971.333
[1] R. I. " 974.54
Kent poultry 636.523
sheep 636.3215
Kentucky, U. S.
admission U. S. hist. 973.41
[1] history 976.9
For military history, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
travel 917.69
Kentucky horse 636.13
red turkey 636.5928
[1]Keokuk city, Ia. history 977.7991
[1] co. Ia. " 977.791
Kepler's problem astron. 521.37
Keramics art 738
chemic tech. 666.3
Keratomalacia eye diseases 617.71
[1]Kern co. Cal. history 979.488
Kerosene
chemic technology 665.5
heating chem. 542.43
inspection prot. of life 614.834
[1]Kerry, Ireland history 941.96
Kerry cattle 636.2256
sheep 636.3244
Ketones chemistry 547.6
[1]Kewaunee co. Wis. hist. 977.562
[1]Keweenaw co. Mich. " 977.499
Kexél, Olof Swed. drama 839.7253
Key bugle musical instru. 788.46

Keys
and locks manufac. 683
machine fastenings 621.883
mathemat. student hon. 371.81
Keyser, R. Danish essays 839.8463
Khita ancient history 939.45
[1]Khiva history 958.5
travel 915.85
[1]Khodavendigar Asia hist. 956.1
[1]Khokand, Turkestan " 958.7
Kidglove orange 634.322
Kidnapping crim. law 343
Kidney bean 635.652
vetch 633.362
Kidneys
action of vagus on 612.819915
anatomy **611.61**
diseases 616.61
physiology **612.46**
surgery 617.46
[1]Kildare, Ireland history 941.85
[1]Kilkenny, " " 941.89
[1]Killarney, " " 941.96
travels 914.196
Kilos anatomy 611.81711
Kilpatrick's expedition 973.7362
[1]Kincardine, Scot. history 941.26
Kindergarten education **372.2**
Kindness ethics 177.7
Kinematics machinery 621.81
physics 531.1
Kinetic theory of gases 533.7
Kinetics physics **531.3**
Kinetograf photografy 778
Kinetoscope " 778
King, William Eng. satire 827.47
King George's war U.S. hist. 973.26
Philip's " " " 973.24
N.E. " 974
William's " U.S. " 973.25
Kinghir sheep 636.385
Kingo, Thomas Dan. poet. 839.8134
King's daughters 267.433
Kings
absolute monarchy 321.6
bench 347.99
book of, Bible 222.5
constitutional monarchy 321.7
[1] co. Cal. history 979.485
[1] Ireland " 941.86
[1] New Brunswick " 971.541
[1] New York " 974.722
[1] Nova Scotia " 971.634
[1] P. E. I. " 971.77
Kings
divine right pol. sci. 321.6
evil diseases 616.996
lives **923.1**
mountain Am. revol. 973.3364
Kingship 321.6
Kingsley, C: Eng. fiction 823.85
[1]Kingston, Ont. history 971.372
Kinkel, J; G. Ger. poetry 831.82
[1]Kinross, Scotland history 941.34
Kinship customs **392**
genealogy 929.1
Kipp gas apparatus chem. 542.72
[1]Kirkcudbright, Scot. hist. 941.49
Kissing customs 392.3
Kitchen
domestic economy **643.3**
gardening **635**
middens archeology 571.93
Kitchens architecture 728.93
Kite flying meteorology 551.51
mil. aeron. 623.746
sports 796
Kites aeronautics 629.171
[1]Kiva, Turkestan history 958.5
Kjæmpeviser Dan. poet. 839.8112
Kjérkegaard, S.A. " essays 839.8462
Klausen, Peder " misc. 839.883
Kleist, H; B.W; von 832.68
Kleptomania mental dis. 132.6
Klinger, F; M. Ger. dram. 832.64
[1] Klondike region history 971.21
Klopstock, F; G. Ger. poet 831.62
Knee anatomy 611.983
cap " 611.71845
joint " 611.7283
Kneipp cure therapeutics 615.853
Knife, grass 631.3511
grafting 631.341
pruning 631.3422
switches elec. eng. 621.31732
Knifetooth harrow 631.3134
Knightage heraldry **929.7**
Knighthood
chivalry 394.7
orders heraldry **929.7**
Knights
Hospitalers 929.711
of Columbus Great war 940.4775
labor labor organiza. 331.88
Malta 929.711
Pythias secret soc. 366.2
Rhodes 929.711
St John 929.711

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Knights
Templars 929.712
Knitting dom. econ. 646.26
machines textils 677
Knives cutlery 672
stone, chipt 571.15
polisht 571.25
Knorring, S. M. von 839.7361
Knowledge, theory of 121
unity of 121
Knowles, J. S. Eng. dram. 822.72
Knownothing party
U. S. history 973.66
politics 329.5
[1]Knox co. Ill. history 977.349
travels 917.7349
[1] Ind. history 977.239
[1] Me. " 974.15
[1] Mo. " 977.8315
[1] O. " 977.152
Knoxville campain 973.7358
Kobolds folklore 398.4
Kodaks photografy 771
Kohlrabi 635.348
[1]Kokand, Turkestan hist. 958.7
Kola agriculture 633.76
therapeutics 615.32318
Kolmogorian cattle 636.271
Kola therapeutics 615.32318
[1]Kongo, Africa history 967.2
[1] Basin " 967.5
travel 916.75
[1] Free State history 967.5
sheep 636.386
[1]Konieh, Asia Turk. hist. 956.4
Koomiss adulterations 614.324
dairy products 637.146
Koonawur, Punjab trav. 915.45
[1]Koordistan history 956.6
travels 915.66
Koran Mahometanism 297
[1]Kordofan, Egypt history 962.8
Körner, K; T. Ger. poetry 831.66
[1]Kosciusko co. Ind. hist. 977.282
Kosmos univ. language 408.9
[1]Kossuth co. Ia. hist. 977.721
Kotzebue, A; F; F. von 832.66
Koumiss adulterations 614.324
dairy products 637.146
Krishna Buddhism 294
[4]Kroatian language 491.83
Krypton inorganic chem. 546.294
Ku Klux Klan pol. ass'ns 363
Kumiss adulterations 614.324
dairy products 637.146
Kumquat 634.324
Kunawar, Punjab trav. 915.45
[4]Kurdish language 491.57
[1]Kurdistan history 956.6
travels 915.66
[1]Kurile ilands history 952
travels 915.2
Kyloe cattle 636.2233
Kyrie sacred music 783.22

L. M. Z. formulæ geodesy 526.46
Labels in museums 579.72
Labia majora anatomy 611.6732
minora " 611.6733
Labiatæ botany 583.891
Labiche, E. M. Fr. drama 842.81
Labor
colony 331.8
dep't estab. U. S. hist. 973.85
induction of obstetrics 618.88
laws 338.9
obstetrics 618.4
of children 331.3
party polit. parties 329.85
pathology of obstetrics 618.5
political economy 331
savers, domestic 643.6
kitchen 643.34
literary 029.2
state control 351.83
statistics polit. econ. 331
unions " " 331.88
Laboratories
architecture 727.5
biologic 590.7
chemic architecture 727.5
prac. chem. 542.1
physical architecture 727.4
school bildings 371.623
equipment 371.66
state adulterations 614.3
Laboratory
technic chemistry 542
method of instruction 371.38
Laborers
cottages architecture 728.68
domestic 647.3
factory organization 621.705
occupation hygiene 613.6
political econ. 331.8
Laboring
classes laws, *see* Laws
polit. econ. 331.8
sociology 323.33
Labrador
discovery of America 973.16
[1] history 971.9
Labyrinth
membranous anatomy 611.852
osseous " 611.853
Labyrinths prehist. arch. 571.95
La Calprenède, G.de C.de 843.43
Lacaune sheep 636.3468
Lacedaemon anc. history 938.9
Lacemaking art needlewk 746
manufac. 677
Lacerated wounds surg. 617.143
Laceration of genital tract 618.55
Lacertilia reptils 598.11
Lacewing flies pests 632.74
Lachine rapids, Que. trav. 917.14285
Lachrymal, *see* Lacrimal
Lacistemaceæ botany 583.983
[1]Lackawanna co. Pa. hist. 974.836
Lacker
work artistic furniture 749
manufactures 667.7
[1]Laclede co. Mo. history 977.8815
Laconia ancient history 938.9
[5]Laconics Eng. literature 828
Lacquer
work artistic furniture 749
manufactures 667.7
Lacrimal
apparatus anatomy 611.8464
physiology 612.847
bone anatomy 611.7157
disorders eye diseases 617.76
secretions zoology 591.147
[1]La Crosse city, Wis. hist. 977.572
[1] co. Wis. " 977.571
travel 917.7571
Lacrosse games 797
Lactation
diseases of obstetrics 618.71
physiology 612.664
Lacteals anatomy 611.426
Lactic fermentation physiol.612.66417
Lactiferous ducts anat. 611.693
Lactin milk composition 637.1272
Lactobutyrometer 637.1275
Lactocrite 637.1275
Lactodensimeter 637.1276
Lactometer dairy 637.1276
public helth 614.32
Lactoscope dairy 637.1276
Lactose milk composition 637.1272
nutrition 612.39614
Lactose nutrition 612.39614
Lacunae, urethral anat. 611.6234
Ladders lib. econ. 022.941
Ladies
in library reading rooms 024.53
maids dom. econ. 647.25
of the Sacred Heart 271.93
[1]Ladrone ilands history 996.7
travel 919.67
Lafayette, M. comtesse de 843.48

[1]Lafayette, Ind. history 977.295
[1] co. Mo. " 977.845
[1] Wis. " 977.579
La Flèche fowls 636.543
La Fontaine, J. de Fr. poet 841.45
Lagerbring, S. Swed. misc. 839.7844
[1]Lagrange co. Ind. hist. 977.279
La Harpe, J. F. de Fr. dram. 842.63
essays 844.61
[1]Lahore, India history 954.5
Lahune sheep 636.3469
Laissez faire pol. econ. 330.153
[1]Lake Champlain history 974.754
travels 917.4754
[1]Lake co. Cal. history 979.417
[1] Ill. " 977.321
[1] Ind. " 977.299
[1] Mich. " 977.468
[1] O. " 977.133
drainage 627.5
duck 636.59782
dwellings archeol. 571.83
[1] George, N. Y. hist. 974.751
[1] Megantic co. Que. " 971.469
[1] of Bays dist. Ont. " 971.316
[1] St John co. Que. " 971.414
[1] **states, U. S.** " **977**
travel **917.7**
For military history of all or individual states, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
surveys geodesy 526.99
vessels shipbilding 623.824
Lakenfeld cattle 636.2354
Lakenvelder fowls 636.532
cattle 636.2354
Lakes
artificial landsc. garden. 714
boundaries pol. sci. 320.1286
physical geografy 551.48
water supply 628.11
Lalli, G. Italian satire 857.53
Lamaism 294
Lamartine, A. M. L. de P. de 841.74
Lamb, Charles Eng. essays 824.75
Lambertypes 773
Lambs lettuce 635.57
[1]Lambton co. Ont. history 971.327
Lamellae, bony histology 611.01843
Lamellibranchiata zoology 594.1
La Mennais, H. F. R. de
French essays 844.71
philosofy 194.6
Lamentations Bible 224.3
Lamiales botany **583.87**
Lammermuir sheep 636.3252
La Motte, A. H. de Fr.dram. 842.51
Fouqué, F; H; C; 833.65
Lamp
black air pollution 614.747
holes sewerage 628.253
posts vent. of sewers 628.232
shells zoology 594.8
[5]**Lampoons English satire** **827**
Lampreys fishes 597.2
Lamps
arc elec. lighting **621.325**
bracket lib. bildings 022.765
chemic technology 665.6
filament elec. lighting 621.326
incandescent vapor 621.3273
library bildings 022.751
[1]Lanark, Scotland hist. 941.43
[1] co. Ont. " 971.382
[1]Lancashire, England " 942.72
sheep 636.3254
swine 636.4242
Lancaster
and York Eng. hist. **942.04**
Irish " 941.54
[1] co. Pa. history 974.815
system education 371.41
Lancelet fishes 597.1
Lances side arms 623.4444
Land
claims finance 336.13
companies
drainage engin'g 627.5
farm economics **631.1**
grants finance 336.14
to public schools 379.123
law 347.2
laws polit. economy 333
markers 631.3314
nationalization of 333.1
operations Great war **940.42**
political economy **333**
public polit. economy 333.1
settlement guides 631.11
slides geology 551.3
soil **631.4**
state domain 336.1
surveying 526.9
tenure law 347.2
titles, insurance of 368.8
travel protec. of life 614.861
under water drainage 631.616

Landaise sheep 636.3463
Landed
gentry English heraldry 929.725
industry state control 351.823
[1]Landes, France history 944.77
Landing
apparatus aviation 629.187
artillery mil. eng. 623.414
places aeronautics 629.144
Landlord
and tenant law 347.2
polit. econ. 333
Landrat Ger. local gov't 352.0433
Landscape drawing 741
gardening 710
painting 758
photografs 779
sketching 741
Landtag Ger. cent. gov't 354.4308
local " 352.0431
Langebek, J. Dan. misc. 839.8842
Langendijk, P. Dutch dram. 839.3241
Langensalza goat 636.393
Langerhans, ilands of anat. 611.377
physiol. 612.349
[1]Langlade co. Wis. hist. 977.535
Langland, W: Eng. poetry 821.15
Langshan fowls 636.5853
Language 400
[3] English, origin of 422
lessons elemen. educ. 372.6
localization physiol. 612.825249
of flowers 716.2
origin of 401
physiology 612.789
sign def and dum 371.912
hieroglyfics 419.1
universal 408.9
Languages
intranational migration 323.1
philology 400
see also qualifying names
Langue bleue philology 408.9
[1]Languedoc, France hist. 944.8
trav. 914.48
swine 636.447
Lank sheep 636.3254
[1]Lansing, Mich. hist. 977.427
Lantern
astronomic 523.89
magic optics 535.86
slides education 371.335
lib. administra. 025.177
library cases for 022.487
Lanterns dom. economy 644.322
Lanthanum chemistry 546.63
Lanzi, Luigi Ital. essays 854.64
[1]Laos, Asia history 959.4
Laparotomy surgery 617.55
[1]Lapeer co. Mich. history 977.442
La Peruse, J: B.de Fr.drama 842.33
La Place's functions calcul. 517.35
[1]Lapland, Russia history 947.1
travels 914.71
[1]La Plata history 982
[1]Laporte co. Ind. history 977.291
Lapping machines 621.922
Laprade, P: M. V: R: de 841.81
[1]La Prairie co. Que. hist. 971.434
Larceny law 343
Lard
adulterations 614.313
chemic technology 664.3
refiners' occupation hyg. 613.62
refining air pollution 614.743
Larder dom. economy 643.37
Large
farm 631.1161
eard swine, French 636.441
German 636.434
intestin anatomy 611.347
physiology 612.36
numbers, cooking for 641.57
numbers, entertaining 642.43
or small college 378.15
Polish swine 636.433
Suffolk " 636.4246
Larivey, Pierre de Fr. dram. 842.38
Larra, M.J.de F. Span.fict. 863.51
Larva comp. physiol. 612.651
embryology 591.34
Laryngeal
nerv, inferior anatomy 611.831917
superior " 611.831916
pharynx " 611.3273
tonsils " 611.326
Laryngology pathology 616.22
Laryngoscope " 616.22
Laryngoscopy " 616.22
physiology 612.7823
Laryngotomy surgery 617.42
Larynx
acoustics 534.7
anatomy 611.22
artificial physiol. 612.783
diseases of 616.22
of birds comp. physiol. 612.788
physiology 612.78

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Larzac sheep 636.3468
La Sale, Antoine de Fr. fic. 843.23
[1]Lasalle, Ill. history 977.327
[1]Lassen co. Cal. history 979.426
travel 917.9426
[1]L'Assomption co. Que. hist. 971.4416
Last supper sacraments 265.3
La Taille, J: de Fr. dram. 842.36
Late hours hygiene 613.79
Latent period
physiology of brain 612.8211
hart 612.1723
muscle 612.7417
Lateral
colum of cord anat. 611.8256
line comp. physiology 612.8869
Lath, metal plastering 693.66
wooden " 693.65
Lathe work mech. eng. 621.94
Latin
antiquities 913.37
biografy 920.037
church 282
classics 870
epic poetry 873
erotica 874
geografy 912.37
hymns hymnology 245.7
literature 879.1
inscriptions 471.7
[4] **language 470**
[5] **literature 870**
lyric poetry 874
[4] **medieval and modern 479**
mythology 292
squares and rectangles
mathematics 511.61
union 332.43
Latissimus dorsi anat. 611.73112
Latitude
at sea navigation 527.1
determinations geodesy 526.61
finding 525.41
geocentric theor. astron. 521.26
heliocentric " " 521.25
variations of " " 521.28
Latium ancient history 937.6
[1] modern " 945.6
Latrines sanitation 628.45
Latterday saints Mormons 298
Lattis doors arch. constr. 721.83
girders engin'g 624.23
Lattist construction bild'g 694.5
Laube, H; Ger. drama 832.76
Laudonnière discov. of Am. 973.18
Laughing
gas anesthetics 615.781
physiology 612.219
Laughter emotions 157
hysteria 616.852
Launch engins 621.1228
Launching
tubes torpedoes 623.95
ways shipbilding 623.83
Laundresses dom. econ. 647.25
Laundries
architecture 728.93
public dom. econ. 648.1
Laundry
accounts dom. econ. 648.11
cooperativ " " 648.1
domestic economy 648.1
location of domestic 643.58
Lauragaise sheep 636.3465
Laurineæ botany 583.931
Lava lithology 552.21
[1]Laval co. Que. history 971.427
Lavatories
domestic economy 643.52
furnishings dom. econ. 645.68
library bildings 022.686
school " 371.626
La Vendée
[1] French department 944.61
insurrection 944.043
Lavender perfume plants 633.812
Law 340
addresses 347.04
and miracles theology 231.7
and order leags temp'nce 178.4
dictionaries 347.03
forms 347.93
interpretation pol. sci 328.21
making " " 328
merchant 347.7
metaphysics
moral ethics 170
of corporations 347.7
nations 341
nature science 501
sociology 340.1
special topics see subject
parish ecclesias. polity 262.2
reports American 345.4
English 346.4
schools 340.7
architecture 727.4
Sunday 263.8

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Lawn bowls 796
mowers 631.3527
tennis 796
Lawns 712
[1]Lawrence co. Ill. history 977.376
[1] Ind. " 977.226
[1] Mo. " 977.875
[1] O. " 977.188
[1] Pa. " 974.893
Laws
aeronautics 629.148
bilding bilding 692.9
protec. of life 614.85
citizenship 323.61
conflict of 341.5
library lib. econ. 021.894–9
medical license 614.24
practis 614.2
[3] of language English 422.1
plumbing 696.9
school 379.14
uniform legislation 328.22
Lawyers
and American revolution 973.315
ethics 174.3
lives 923.4
Laxativs therapeutics 615.7321
Lay ministry eccles. polity 262.14
Layamon Eng. poetry 821.11
Layering plant culture 631.534
pots 631.335
Layettes clothing 646.36
Laying of egs zootechny 636.08246
Laying out of
farm 631.12
towns and streets eng. 625.7
public helth 614.781
Lazarettos
contagious diseases 614.45
hospitals 362.1
Lazarists monastic ord. 271.77
Lead, *see* Led
Leading
cases American law 345.5
English " 346.5
on special subjects see subject
Leading glazing 698.5
Leaf chervil 635.78
cuttings 631.5357
hoppers pests 632.75
insects " 632.72
Leag of nations 341.1
Leags, law and order 178.4
Leakage
elec. power transmission 621.31937
railway engineering 621.333167
Leanness physiol. 612.3977
Learned societies 060
bildings arch. 727.9
Learning
Leases law 347.2
Least squares
computing orbits 521.36
in geodesy 526.5
probabilities 519.8
Leather, *see* Lether
Leaves fertilizers 631.872
shapes of botany 581.4
[1]Lebanon co. Pa. history 974.819
Leblanc ram hyd. mach. 621.273
Lebrun, P. D. E. Fr. poet. 841.61
[1]Lecce, Italy history 945.76
Lecithin blood 612.11119
nutrition 612.39782
Lecompton constitution
Kansas history 978.1
slavery 326.973
U. S. history 973.68
Le Coq, Thomas Fr. dram. 842.31
Lectern sacred furniture 247.1
Lectionary Anglican ritu. 264.032
Lecture rooms lib. bilding 022.651
school 371.621
Lectures
copyright of 655.62
[5] **English oratory 825**
for laboring classes 331.85
halls for architecture 725.83
instruction methods 371.33
library 021.43
library propagandism 021.78
support 021.96
popular education 374.5
[2] on special topic see subject
Led
accumulators elec. eng. 621.355
black economic geol. 553.26
chemistry 546.51
drugs 615.251
manufacture 671
metallurgy 669.4
mining 622.34
ores economic geology 553.44
poisoning toxicology 615.928
roofs bilding 695.4
water pipes 628.15
Leding glazing 698.5

Lee
C: treason Am. revol. 973.383
R. E: surrender U.S. hist. 973.7384
[1]Lee co. Ill. history 977.336
[1] Ia " 977.799
Leechee 634.571
Leeches culture 639.8
medicin 616.9688
zoology 595.1
[1]Leeds city, Eng. history 942.74
[1] co. Ont. " 971.373
Leek 635.261
[1]Leelanaw co. Mich. hist. 977.463
[1]Leeward ilands " 972.97
trav. 917.297
Left hart anatomy 611.122
Lefthandedness 612.76
Leg anatomy 611.984
lymfatics " 611.42184
muscles " 611.7383
surgical operations 617.58
Legacies law 347.6
taxation 336.27
Legal
anecdotes 340.9
bibliografy 016.34
capacity of persons law 347.1
chemistry law 340.6
education 340.7
ethics 174.3
hermeneutics 347
holidays lib. econ. 023.652
maxims 340.9
medicin asphyxiation in 612.232
jurisprudence 340.6
profession, *see* Lawyers
status of woman 396.2
tender paper money 332.5
Legendre's theorem geod. 526.42
Legends folklore 398.2
monastic 271
mythology 291
of the Madonna 225.92
Legerdemain 791
Leghorn fowls 636.551
Legislation 328
American statutes 345
British " 346
comparativ 340.5
fertilizers 631.818
industrial 338.9
library founding of libs. 021.8
political science 328
public helth 614.09
Legislation
sumptuary social ethics 177.4
wages 331.261
see also qualifying term
Legislativ
bodies and annals 328
manuals 328.371
reporting shorthand 653.046
Legislators
powers 328.34
restrictions 328.34
Legislatures, *see* Legis. bodies
Legitimacy family law 347.6
Legs, artificial surgery 617.58
Legumes field crops 633.3
food values 641.12
garden crops 635.6
harvesting 631.5563
nutrition 612.39272
Leguminosæ botany 583.32
Leguminous fruits 634.46
[1]Lehigh co. Pa. history 974.827
Leibnitz Ger. philosofy 193.1
[1]Leicester, Eng. history 942.54
travels 914.254
sheep 636.3212
border sheep 636.3213
[1]Leinster, Ireland history 941.8
[1]Leipzig history 943.21
travels 914.321
Leitnerieæ botany 583.972
[1]Leitrim, Ireland history 941.71
Le Mans fowls 636.543
Lemercier, L. J. N. 842.68
Lemnaceæ botany 584.68
Lemniscus anatomy 611.8167
Lemnos ancient history 939.11
[1] modern " 949.91
[1]Lemoille co. Vt. history 974.33
Lemon vine 634.7757
Lemonade adulterations 614.346
Lemons fruit culture 634.334
Lempster sheep 636.3242
Lemur zoology 599.8
[1]Lenawee co. Mich. hist. 977.431
Length of college course 378.241
legislativ sessions 328.354
term of offis 328.3356
working day econ. 331.811
Lennep, J. van Dutch fic. 839.3354
Lenngren, A. M. Swed.poet. 839.7156
Lennoaceæ botany 583.66
[1]Lennox & Addington co. Ont.
history 971.359

Lens
crystallin anatomy 611.8441
physiology 612.8441
eye diseases 617.74
Lenses optics 535.81
photografy 771
Lénström, K. J. Swed. lit. 839.7464
Lent Anglican church 264.031
Lenten cookery 641.566
mass music 783.27
Lentibularieæ botany 583.825
Lenticular nucleus anat. 611.81322
Lentils 635.668
Leo 3 Byzantine history 949.502
Leon
L. P. de Span. poetry 861.33
Ponce de discov. of Am. 973.16
[1] Spain history 946.2
Leonese sheep 636.366
Leopardi, G. Ital. poetry 851.75
Leopold 1 Ger. history 943.044
2 " " 943.06
Leopold, K. G. af 839.7157
Lepidoptera agric. pests 632.78
zoology 595.78
Lepisma agric. pests 632.71
Leprosy pathology 616.998
public helth 614.546
Leptocardii 597.1
Le Sage, A. R. Fr. fiction 843.51
Lesbos ancient history 939.12
[1] modern " 949.92
Leslie's Virginia exped. 973.3361
Lesser circulation, pressure 612.148
Lessing, G. E. Ger. drama 832.61
Lether domestic econ. 646.15
manufacture 675
stampt bilding 698.8
Letter writing compo. 808.6
etiquet 395
Lettering, ornamental 745
[3]Letters English alfabet 421
[5] literature 826
patent patents 608
[2] see also special subject
Lettic languages 491.9
[4]Lettish " 491.93
Lettuce 635.52
Leucocytes physiology 612.112
Leucocythemia diseases 616.41
Leucocytic ferments phys. 612.11211
Leucocytosis " 612.1126
Leucomains " 612.398195
Leucorrhea gynecology 618.17
[1]Levant, Asia history 956
travels 915.6
sheep 636.385
ship U.S. war 1812 973.5257
Levator
anguli oris anatomy 611.7326
scapulae anatomy 611.73114
Levatores
costarum anatomy 611.7354
labii " 611.7326
Levees hydraulic engin'g 627.4
Level constant astron. 522.36
Leveling
adjustments geodesy 526.58
barometric geodesy 526.37
spirit 526.36
surveying 526.95
trigonometric 526.38
Lever
application obstetrics 618.81
mechanics 531.81
Levers
ordnance implements 623.463
Levigation prac. chem. 542.22
[1]Levis co. Que. history 971.459
Levitation spiritism 133.9
Leviticus Bible 222.13
Lewes, Mrs G: H: Eng. fic. 823.88
Lewis, M. G. Eng. fiction 823.71
[1]Lewis co. Mo. history 977.8345
[1] N. Y. " 974.759
[1] W. Va. " 975.461
Lex mercatoria law 347.7
Lexicografy, comparativ 413
[3] Eng. language 423
[3]Lexicons *see* **Language**
[2] on special topics see subject
Lexington, battle Am. rev. 973.3311
ship " " 973.353
Liabilities bilding 692.9
Liability
acts, employers 331.82
insurance business 368.4
pol. econ. 331.25
to military servis 355.22
Lias geology 551.76
Libby prison U.S. civ. war 973.7712
Libel law 347.5
Liberal
christianity rationalism 211
unitarianism 288
degree, subjects allowable 378.242
Liberality ethics 179.9
[1]Liberia history 966.6

Liberty
civil law 347.1
political science 323.44
ecclesiastic polity 262.8
metaphysics 123
of conscience eccles. pol. 262.8
press journalism 070.13
political science 323.445
will mental faculties 159
personal doctrin 233.7
law 347.1
political sci. 323.44
salvation 234.9
religious church 261.7
state ethics 172.3
Librarian
apartment lib. bildings 022.691
chief 023.4
duties 023.7
hours 023.6
qualifications 023.51
Y. M. C. A. 267.342
Librarians biografy 920.2
Libraries
architecture 727.8
arguments against 021.02
for 021.01
for blind 027.6
working classes
lib. econ. 027.6
pol. " 331.85
free public lib. " 027.4
state control 351.852
general lib. econ. 027
home " " 021.67
house " " 021.66
imaginary book rarities 098
in block, buying 025.225
parochial lib. econ. 027.8
parish work 257
private lib. econ. 027.1
regulations for readers 024
school education 371.64
lib. econ. 027.8
scope and founding 021
special for schools 021.33
special subject 026
Sunday opening lib. econ. 024.41
theol. 263.7
traveling 021.65
in sense of series see subject
Library
administration 025
benefit associations 023.59
Library
bildings 022
architecture 727.8
schools 371.622
Bureau 020.65
catalogs author 018
dictionary 019
subject 017
commission room bldgs 022.612
cranks lib. decorum 024.52
departments, state 021.82
economy 020
fires 022.26
furnishings dom. econ. 645.63
furniture 022.9
fixt 022.349
government 023
legislation lib. econ. 021.89
meetings staf privilege 023.68
name on book binding 025.254
post, cheap lib. law 021.863
progress 021.03
property staff rules 023.94
rooms Y. M. C. A. 267.325
schools 020.7
staff organization 023.7
Y. M. C. A. 267.3532
Librations moon 523.33
Librettos opera 782
Libya ancient history 939.77
Libyan sheep 636.386
Lice animal parasites 616.9681
biting agric. pests 632.75
License
local government 352.8
of dentists pub. helth 614.24
pharmacists " " 614.24
physicians " " 614.24
teachers education 371.13
taxation 336.27
temperance 178.4
Licenses, maritime 387
Lichens botany 589.1
Licinian laws pol. econ. 333
Roman hist. 937.02
[1]Licking co. O. history 977.154
Lidner, Bengt Swed. poet. 839.7153
Lieberkühn's glands 611.3415
Lieder vocal music 784.4
[1]Liége history 949.3
travels 914.93
Lien laws 347.2
Liernur system sewerage 628.213

Life
animal painless extinct. 614.971
appointment to legis. body 328.3351
army **355.1**
biology **570**
boats protection of life 614.867
ship bilding 623.829
outfit 623.86
conditions of biology 577.4
contingencies moth. 519.5
elixir of alchemy 540.1
ethics 179.7
future doctrinal theol. **237**
natural " 218
insurance **368.3**
probabilities 519.5
metaphysics 111
nature of physiol. **612.013**
navy 355.1
of legislatures 328.354
origin of biology **576**
polit. sci. 323.43
preservers protec. of life 614.867
ship outfit 623.86
properties of living matter **577**
protection from accidents **614.8**
saving servis protection 614.868
transport. 656
sedentary hygiene 613.65
tables life insurance 368.3
Lifting
bridges engineering 624.84
committee legislation 328.375
machinery hydraulic **621.263**
mech. eng. **621.86**
rams " 621.272
Lifts
book library econ. 022.945
canal engineering 626.5
domestic economy 643.6
mechanic engineering 621.87774
school equipment 371.629
Ligaments anatomy **611.72**
of larynx 611.227
uterus **611.667**
Ligatures therapeutics 615.813
Light
and air hygiene **613.1**
shade arch. design 729.14
shadow, grafics of 515.7
animal production physiol. 612.772
zoology 591.59
effect on iris physiol. 612.8423
plants 581.1
Light
electric engineering **621.32**
lib. bildings 022.754
physics 537.83
houses engineering 627.9
navigation 656
optics 535.88
houses protec. of life 614.865
infantry mil. sci. **356**
mesology **612.01444**
of earth 525.2
moon 523.32
stars 523.82
sun 523.72
optics **535**
perspectiv of shadows 515.63
photochemistry 541.35
polarization of 535.5
therapeutics 615.831
zodiacal astronomy 523.59
Lighters boatbilding 623.829
power " 623.8232
Lighthouse
tenders shipbilding 623.826
Lighting
decorativ fine arts 745
electric engineering **621.32**
physics 537.83
engineering 628.9
library bildings **022.7**
mediums chem. tech. **665**
mines 622.47
panels elec. eng. 621.31727
school bildings 371.627
shipbilding 623.85
systems dom. econ. **644.3**
windows architecture 729.38
Lightning
agriculture 632.15
arresters elec. line 621.31982
stations 621.3178
telefone central 621.38794
terminal 621.38694
telegraf 621.38328
deth by electrophysiol. 612.014425
physics 537.4
rods physics 537.4
shock surgery 617.12
Lights
and fuel dom. econ. **644**
shades drawing 742
perspectiv 515.63
chemic technology **665**
ecclesiology 246.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Lightships shipbilding 623.826
Lignite econom. geol. 553.22
Liguria, Italy history, anc. 937.1
antiquities 913.371
[1] history mod. 945.1
travel 914.51
Liliaceæ botany 584.32
Lillo, G: English drama 822.57
[1]Lima, O. history 977.1421
[1] Peru " 985
travel 918.5
Lima bean 635.653
Limbers ordnance 623.4314
Limbic lobe anatomy 611.81314
Limbo eschatology 236.7
Limbs anatomy 611.98
artificial 617.58
Limburger cheese 637.3533
Limbus
infantum eschatology 236.7
patrum " 236.6
Lime, *see* Limes
Limeberry 634.342
[1]Limerick, Ireland history 941.94
treaty of 941.56
Limes bilding material 691.5
chemic technol. 666.9
disinfectants 614.48
economic geology 553.68
fertilizers 631.821
fruit culture 634.337
Limestone crystallin 552.46
econom. geol. 553.51
lithology 552.54
sheep 636.3256
Limitation
election expenditures 324.273
individual rights 323.49
Limited
editions 094
vote suffrage 324.223
[1]Limousin, France history 944.66
sheep 636.3425
swine 636.445
Limpets zoology 594.3
Lincoln, A. presidency of 973.7
[1]Lincoln co. Eng. history 942.53
travels 914.253
[1] Me. history 974.15
[1] Mo. " 977.837
[1] Ont. " 971.351
[1] W. Va. " 975.443
[1] Wis. " 977.527
Lincolnshire buffs poultry 636.526
cattle 636.2224
sheep 636.3214
swine 636.4245
Lincrusta paperhanging 698.8
Lindau, Paul Ger. drama 832.85
Linde apparatus chem. 542.79
Lindsley's takigrafy 653.71
Line
breeding zootechny 636.08241
electric traction 621.332
transmission 621.3192
engraving 765
Lineæ botany 583.211
Linear perspectiv 515.61
Linen
bed dom. economy 645.67
fabrics " " 646.12
furnishings " " 645.48
manufacture 677
table dom. economy 642.7
Lines
analytic geometry 516
descriptiv " 515
electric engineering 621.319
geometry 513
Ling, P. H. Swed. poetry 839.7161
Lingual artery anatomy 611.13322
tonsi " 611.325
Linguistics 400
Linguists biografy 924
Lingula anatomy 611.8185
Linings
masonry mining 622.28
mineral wool masonry 693.67
watertight mining 622.56
Link motion mech. eng. 621.84
Linkages machinery 621.84
[1]Linlithgow, Scot. history 941.44
[1]Linn co. Ia. " 977.762
[1] Mo. " 977.824
Linnæan system botany 580.1
zoology 590.1
Linné, K; von Swed. misc. 839.7842
Linoleum
domestic economy 645.1
library " 022.961
manufactures 679
Linotype
newspapers 070.3222
printing 655.28
Lintels architec. constr. 721.86
Linton sheep 636.3252
Lions zoology 599.7

Lip
reading education 371.912
Lipoids
in blood physiology 612.123
physiology of nutrition 612.3978
Lipolytic ferments physiol. 612.3973
[1]Lippe, Germany history 943.55
Lippi, Lorenzo Ital. satire 857.54
Lips anatomy 611.317
physiol. of speech 612.7892
Liptocardii fishes 597.1
Liquefaction
heat 536.42
of gases chem. 542.79
physics 533.2
Liquid
air physics 533.2
fertilizer distributors 631.3334
fuel chem. tech. 662.6
fuels steam engin'g 621.18223
state chemistry 541.32
treatment prac. chem. 542.6
wastes indus. sanitat'n 628.54
Liquids
absorption by skin 612.7914
in lungs 612.2159
physics 532
volumetric analysis 545.6
Liquor laws
administration 351.761
license 178.4
prohibition 178.5
Liquors
internal revenue 336.27
manufacture 663
taxation 336.27
traffic in temperance 178.4
use of " 178.1
[1]Lisbon history 946.9
travel 914.69
Liscow, C. L; Ger. satire 837.54
[1]L'Islet co. Que. history 971.474
Lissauer's tract anatomy 611.8255
List
system suffrage 324.224
Lists
electoral suffrage 324.241
legislativ bodies official 328.338
unofficial 328.339
Litanies sacred music 783.26
Litany Anglic. church 264.033
[1]Litchfield co. Ct. history 974.61
Litchi 634.771
Literary
addresses 804
on special topics see topic
clubs self education 374.23
criticism, art of 801
with thing criticized see subject
esthetics 801
frauds and forgeries 809
history 809
institutions colleges 378
men biografy 928
diet for hygiene 613.21
methods library econ. 029
[5] **miscellanies, English 828**
occupations hygiene 613.65
periodicals 805
property law 347.3
publishing 655.6
societies student life 371.84
style rhetoric 808
Literature 800
biografy of 928
children delineated in 136.758
classic (Greek and Latin) 880
immoral ethics 176.8
lib. exclusion 025.217
restriction 024.674
medieval 800
modern 800
relation to pol. econ. 330.198
woman delineated in 396.8
Lithium chemistry 546.34
Lithografy engraving 763
Lithology geology 552
microscopic 552.8
Lithophytes zoology 593.6
Lithotomy surgery 617.46
Lithotrity " 617.46
Lithozincografy 767
[1]Lithuania history 947.5
travels 914.75
[4]Lithuanian language 491.92
Litoral rights pol. econ. 333.9
Little
Belt and President
U. S. history 973.51
[1] **Kanawha val. W. Va. hist. 975.42**
[1] Russia history 947.7
travels 914.77
shelbark hickory 634.522
sisters of the poor 271.95
Littré's gland anatomy 611.6234
Liturgies 264

Live stock agriculture 636
insurance 368.5
Liver
anatomy 611.36
diseases of 616.36
physiology 612.35
secretions physiology 612.35
[1]Liverpool history 942.72
travels 914.272
Liverworts botany 588.3
Livery
stables architecture 725.38
uniforms dom. econ. 647.33
Lives biografy 920
of American indians 970.2
gipsies 397
slaves 326.92
Living
cost of 647.1
matter, properties of 577
room dom. economy 645.65
wage polit. econ. 331.214
Livingston, W: Am. poet. 811.15
[1]Livingston co. Ill. hist. 977.361
[1] Mich. " 977.436
[1] Mo. " 977.822
[1] N. Y. " 974.785
[1]Livonia, Russia " 947.4
travel 914.74
[4]Livonian language 491.93
Livy Latin literature 878.4
Lixiviation prac. chem. 542.61
Lizards reptils 598.11
Ljunggren, G. H. J. 839.7465
Llama domestic animals 636.296
Load
bridge engineering 624.172
floor lib. bilding 022.438
Loaders, hay 631.3533
Loadstone
economic geology 553.3
magnetism 538.1
Loan funds, student 378.362
institutes pol. econ. 332.3
systems lib. " 025.6
[1]Loango, Africa history 967.2
travel 916.72
Loans
library lib. econ. 024.6
private finance 332.3
public " 336.3
Loaseæ botany 583.453
Lobbying legis. bodies 328.368
Lobelia cerebrospin. pois. 615.98
Lobsters
fishery 639.5
zoology 595.38
Local
government administ. 352
histories see name of place
history room lib. bldgs 022.64
legislation 328.378
option temperance 178.4
taxation for pub. schools 379.13
taxes finance 336.28
Localizations
cerebral physiology 612.8252
in animals comp. " 612.82525
Location
of bridges engin'g 624.14
college or university 378.15
factories 621.701
farm 631.11
house dom. econ. 643.1
library bildings 022.1
observatories 522.11
roads engin'g 625.72
Loci
in space analytic geom. 516.3
plane " " 516.1
Locke, D: R. Am. humor 817.42
J: Eng. philosofy 192.2
sensationalism 145
Locking up printing 655.27
Lockjaw diseases 616.854
Lockouts capital & labor 331.895
Locks
and keys manufacture 683
architectural construction 721.88
canal engineering 626.4
nut railway engineering 625.15
Lockups architecture 725.62
Locomotion
animal comp. anatomy 591.47
communication 656
organs of pathology 616.7
physiology 612.76
Locomotiv cranes 621.875
Locomotivs
comprest air 621.42
electric engineering 621.3342
railroading 656
steam engineering 621.13
Locomotor ataxia diseases 616.83
Locris, Greece anc. hist. 938.3
Locusts econ. zoology 591.69
pests 632.72
Lodges, porter's architec. 728.91

Lodging houses for poor 361
Lodgings, student 371.87
Log book seamanship 656
[1]Logan co. Ill. history 977.357
[1] O. " 977.146
[1] W. Va. " 975.444
Loganberry agriculture 634.714
Loganiaceæ botany 583.74
[1]Logansport, Ind. hist. 977.286
Logarithms 510.8
Logau, F; von Ger. poetry 831.53
Logging timber trade 674
Logia sayings of Jesus 229.9
Logic **160**
Logical machines 164
Logos Christology 232.2
Logotypes printing 655.23
Logrolling legislation 328.3745
Logs
speed ship outfit 623.86
Lohenstein, D. C. Ger.dram. 832.52
[1]Loir et Cher, France hist. 944.53
Loir-et-Cher sheep 636.3449
[1]Loire France history 944.58
basin sheep 636.344
[1] Inférieure, France hist. 944.14
[1]Loiret " " 944.52
Lollards religious sect 289.9
Lombard
kingdom, Italy history 945.01
street banking 332
[1]Lombardy, Italy history 945.2
Lönberg, Jens Dan. drama 839.8235
[1]London, Eng. history 942.1
travel 914.21
[1] Ont. history 971.326
[1]Londonderry, Ire. history 941.62
Long
distance telefony 621.38781
eard swine 636.433
hornd cattle American 636.2821
English 636.2288
[1] Island, N. Y. history 974.721
battle Am. revol. 973.3322
[1] Point iland, Ont. hist. 971.336
running squash 635.622
taild sheep 636.35
wool " **636.321**
Longevity animals 591.139
librarians 023.58
life insurance 368.3
physiology 612.68
probabilities 519.5
statistics 312
Longfellow, H: W. Am.poet 811.34
[1]Longford, Ireland history 941.81
Longissimus dorsi anat. 611.73136
Longitude
at sea navigation 527.2
determinations geodesy 526.62
geocentric theor. astron. 521.26
heliocentric " " 521.25
methods of finding **525.46**
variations theor. astron. 521.28
Longley shorthand 653.63
Longus Danish misc. 839.8811
Longus colli anatomy 611.7336
Lonk sheep 636.3254
[1]Loo-choo ilands history 952
travel 915.2
Looking glasses optics 535.87
toilet 391
Lookout mt U.S.civ.war 973.7359
Loom, power manufact. 677
Loosjes, Adriaan Dutch fict. 839.3351
Loots, Cornelis " poet. 839.3153
Lope de Rueda Span. dram. 862.39
Lope de Vega " " 862.31
Lopez de Ayala, P. " poet. 861.21
Lophobranchii fishes 597.5
Loquat fruit culture 634.16
[1]Lorain city, O. history 977.1231
[1] co. O. " 977.123
Loranthaceæ botany 583.941
Lord chancellors biografy 923.442
Lord's day 263.3
prayer 226.9
supper sacraments 265.3
Loris, Guillaume de Fr. poet. 841.18
[1]Lorraine, France history 944.38
[1] Germany " 943.45
[1]Los Angeles city, Cal. hist. 979.494
[1] co. " " 979.493
Loss of animal heat physiol. **612.52**
citizenship pol. sci. 323.64
fertilizing principles 631.814
Losses
regimental U.S. civ. war 973.7419
Lost books book rarities 098
lib. economy 024.85
[1]Lot, France history 944.73
[1] et Garonne, Fr. hist. 944.76
Lot sheep 636.3466
[1]Lotbinière co. Que. hist. 971.458
Loteae legume crops 633.374
Lothaire 1 German history 943.01
2 " " 943.023

Lotteries ethics 174.6
history of 174.6
Lotus Egyptian religion 299.31
Lotze German philosofy 193.8
Louhans poultry 636.544
Louis
6 French history 944.022
7 " " 944.022
8 " " 944.023
9 " " 944.023
10 " " 944.024
11 " " 944.027
12 " " 944.027
13 " " 944.032
14 " " 944.033
15 " " 944.034
16 " " 944.035
18 " " first emp. 944.05
" " restorat'n 944.061
1 German " 943.01
2 " " 943.021
3 " " 943.021
4 " " 943.026
Napoleon French hist. 944.07
Philippe " " 944.063
[1]Louisa co. Ia. " 977.7926
Louisburg U. S. hist. 973.26
Louisiana, U. S.
admission U. S. history 973.51
[1] history 976.3
For military history, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
purchase U. S. history 973.46
secession " " 973.713
[1]Louisville, Ky. history 976.9
Lounging gowns 646.47
[1]Louth, Ireland history 941.82
Louvre gallery fine arts 708.4
Love ethics 177.6
feasts pub. worship 264.8
of God theology 231.6
psychology 157
Lovejoy, E. P. murder of 973.7114
Lovelace, R: Eng. poetry 821.45
Low blueberry, dwarf 634.734
" pale 634.736
countries history 949.2
travel 914.92
country sheep 636.331
[4] **Dutch language 439.3**
German literature 839.1
[4] **Latin language 479**
literature 879
Low
pressure engins 621.11252
hot water heating 697.4
steam " 697.5
velocity overshot wheels 621.221
Lowell, J. R. Am. poetry 811.37
Lowenthal's tract anat. 611.8256
Lower
[1] California, Mex. history 972.2
[1] **Canada history 971.4**
[1] **empire Byzantine 949.5**
extremities anatomy 611.98
bones 611.718
bursae 611.758
joints 611.728
lymf glands 611.468
lymfatics of 611.4218
muscles 611.738
surgery 617.58
house legislativ bodies 328.32
Silurian group geology 551.731
Lowland German swine 636.431
Loyal legion mil. order 369.152
volunteers, society 369.153
Loyalists
Amer. revol. Can. hist. 971.024
U. S. " 973.314
Loyalty
[1] ilands history 993.3
political science 320.158
state ethics 172.1
[1]Lozère, France history 944.81
[1]Lubeck, Germany " 943.17
Lubricants 621.89
Lubrication
mechanical engineering 621.89
railway " 625.21
steam locomotiv 621.1345
Lubricators steam plant 621.1977
Lucan Latin epic poetry 873.2
[1]Lucas co. Ia. history 977.786
[1] O. " 977.112
[1]Luce co. Mich. " 977.492
Luce de Lancival, J: C: J. 841.64
Lucernariæ zoology 593.74
Lucian Greek literature 888.7
Lucidor Swed. poetry 839.7132
Lucilius, Caius Lat. satire 877.1
Junior " poetry 871.7
[1]Lucknow, India history 954.2
travels 915.42
Lucretius ancient philos. 187
Latin poetry 871.1
Ludwigslied Ger. poetry 831.13

Luffa 635.627
Luke gospel 226.4
Lull, Raimon Catalan poet. 849.9111
Lullabies folklore 398.8
music 784.4
Lumbago diseases 616.74
Lumbar arteries anat. 611.1362
cord " 611.8214
nervs " **611.835**
region " 611.959
veins " 611.1461
vertebrae " 611.7116
Lumber bilding material 691.1
manufacture 674
wagons farm transport 631.3735
Lumbosacral joints anat. 611.7216
muscles " 611.7313
nervs " **611.8353**
Lumbricales of foot " 611.7389
hand " 611.7377[1]
Lunacy law 347.1
mind and body 132.1
Lunar
caustic therapeutics 615.775
eclipses astronomy 523.38
methods find'g longitude 525.49
tables 523.33
Lunatic asylums 362.2
Lunatum, os anatomy 611.71772
Lunch
counters table systems 642.57
rooms lib. bildings 022.684
school table sys. 642.58
Luncheon recipes 641.53
Luncheons entertaining 642.42
Lunches dom. econ. 642.3
Lundy's Lane U.S.war 1812 973.5237
[1]Lunenburg co. N. S. hist 971.623
Lungs
absorption by 612.385
of liquids in 612.2159
admin. of medicin by 615.64
anatomy **611.24**
capacity of physiol. 612.24
diseases of **616.24**
functions of **612.2**
loss of heat in 612.523
Lupin forage 633.367
Luray caverns description 551.44
Luschka's tonsils anat. 611.324
villi " 611.8193
[1]Lusitania history 946.9
Luster ware pottery 738
Lute stringd instruments 787.6
Lutheran church **284.1**
confession creeds 238.4
Lutherans biografy **922.4**
Luting practical chem. 542.26
Luxemburg, house of 943.026
Luxfer prisms lighting 628.9
Luxury economics 339
ethics 177.4
hygiene 613.88
Luys, nucleus of anat. 611.8141
Luzern swine 636.431
[1]Luzerne co. Pa. history 974.832
Lycanthropy insanity 132.1
Lycées French schools 379.44
Lyceum Gk philosofy **185**
Lyceums self-education 374.23
Lycia ancient history 939.28
antiquities 913.3928
[1]Lycoming co. Pa. " 974.851
Lycophron Gk poetry 881.3
Lycopodinæ botany 587.9
Lycurgus Gk oratory 885.8
Lyddite chem. tech. 662.2
Lydgate, J: Eng. poetry 821.21
Lydia ancient history 939.22
Lying ethics 177.3
Lying-in-hospitals
architecture 725.51
institutions 362.1
Lyly, John Eng. fiction 823.3
Lymf histology 611.01857
Lymfatic
duct, right anatomy **611.425**
glands " **611.46**
harts comp. physiol. 612.424
system anatomy **611.4**
diseases of **616.4**
surg. opera. 617.44
vessels anat. **611.42**
Lymfatics anatomy **611.42**
diseases of 616.42
Lynch law 343.2
Lynchburg
campain U. S. civ. war 973.7369
Lyndsay, D: Eng. poetry 821.26
[1]Lyon co. Ia. history 977.711
[1]Lyonnais, France history 944.58
[1]Lyons " " 944.58
" travels 914.458
Lyric drama, *see* Opera
[5] poetry, English 821.04
Greek **884**
Latin **874**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Lysias Greek oratory 885.2
Lyskander, K. Dan. misc. 839.883
Lythrarieæ botany 583.441
Lytton, E: G: B. Eng. fic. 823.84

Mabinogeon Welsh literat. 891.661
[5]**Macaronics Eng. " 827**
Macaulay, T: B. " essays 824.83
Maccabees Bible 229.7
McCosh, James Am. philos. 191.5
[1]McDonald co. Mo. hist. 977.8736
[1]McDonough co. Ill. hist. 977.342
[1]McDowell co. W. Va " 975.449
Macedonia Greek history 938.1
ship U. S. war 1812 973.5251
Macedonian
dialect Greek lang. 487.81
sheep agriculture 636.373
supremacy Greek history 938.07
Maceration
practical chemistry 542.61
[1]McHenry co. Ill. history 977.322
Ft U.S. war 1812 973.5238
Machiavelli, N. Ital. dram. 852.31
essays 854.31
Machine
design engineering 621.81
engraving 768
gun mounts ordnance 623.4313
guns mil. engineering 623.4224
sheds agriculture 631.25
shop mfg plant 621.75
school equipm't 371.623
shops architecture 725.43
tools mech. engin'g 621.9
Machinery
engineering 621
farm 631.3
inspection public safety 614.838
in industry pol. econ. 338.4
irrigating 631.78
kitchen 643.34
propelling shipbilding 623.87
transmission agric. 631.37
Machines
digging 631.3115
distributing printing 655.28
hydraulic 532.8
mechanics 531.8
modulus of physics 531.43
practical printing 655.36
typesetting 655.28
washing dom. econ. 648.23
see also specific subject
Machinists' occupations
hygiene 613.66
[1]McKean co. Pa. history 974.863
Mackenzie, G: Eng. fic. 823.43
H: " " 823.65

[1]Mackenzie ter. Can. hist. 971.22
Mackerel fishery 639.2
[1]Mackinac co. Mich. hist. 977.492
McKinley, W: presidency 973.88
tariff act U.S.hist. 973.86
Mackintosh, J. Eng. essays 824.71
[1]McLean co. Ill. history 977.359
McMahon third republic 944.08
[1]Macomb co. Mich. hist. 977.439
[1]Macon co. Ill. " 977.358
[1] Mo. " 977.827
[1]Macoupin co. Ill. " 977.383
Macpherson, J. Eng. poet. 821.66
Macula lutea
anatomy 611.843
Mad houses 362.2
[1]Madagascar history 969
[1]Madawaska co. N. B. hist. 971.554
[1]Madeira iland " 946.98
trav. 914.698
[1]Madero co. Cal. hist. 979.481
Madison, J. presidency of 973.51
[1]Madison city, Wis. hist. 977.584
[1] co. Ill. " 977.386
[1] Ind. " 977.257
[1] Ia. " 977.781
[1] Mo. " 977.891
[1] N. Y. " 974.764
[1] O. " 977.155
Madness
mind and body 132.1
Madoc discov. of Am. 973.14
Madonna
in art ecclesiology 246
fine arts 709
painting 755
legends 225.92
mariolatry 230.2
[1]Madras, India history 954.8
travel 915.48
Madras hemp 633.562
Madreporaria zoology 593.66
[1]Madrid history 946.4
travel 914.64
Madrigal music 784.1
Maerlant, Jacob van 839.3111
Maffei, S. marchese di 852.56
Magalhaens discov. of Am. 973.16
[1]Maganetawan dist. Ont. hist. 971.315
Magazine
guns ordnance 623.4224
publisht by library 025.126
racks library economy 022.935
rifles small arms 623.44231
Magazines
general periodicals 050
literary 805
powder, care of 623.4811
construction of 623.614
[2] special subject see subject
[1]Magdalen ilands, Que. hist. 971.4797
[1]Magdeburg, Prussia " 943.18
trav. 914.318
Magellan straits
discovery U. S. history 973.16
travels 918.2
Maggots
parasitic diseases 616.967
Magic
lanterns optics 535.86
natural 133
squares mathematics 511.61
Magicians lives 920.9
Magistrates law 347.96
Magna charta
constitutional history 342.42
English history 942.033
Magnesium
chemistry 546.46
group chemistry 546.44
Magnetic
machines 538.8
needle 538.7
observations 538.7
separation of ore 622.77
surveys mining 622.15
telegraf, business 654
elec. eng. 621.382
Magnetism 538
animal mind and body 134
electrophysiology 612.014426
terrestrial 538.7
Magneto
boards telefony 621.38722
chemistry 541.378
dynamos electricity 537.83
engineering 621.313
potential regulators eng. 621.31453
Magnets
properties of 538.1
Magnifiers optics 535.82
Magnitude of stars 523.82
Magno, Celio Ital. poetry 851.44
Magnoliaceæ botany 583.114
Magnum os anatomy 611.71777
Maguey fiber 633.5775
Magyar language 494
poultry 636.538

Magyars history 943.91
Mahabharata Sanskrit lit. 891.2
[1]Mahaska co. Ia. history 977.784
Mahometanism 297
[1]Mahoning co. O. hist. 977.139
[1]Mahrah, Arabia " 953.4
[4]Mahratta language 491.46
Mails postoffis 383
Maimonides oriental phil. 181.3
[1]Maine, France history 944.16
[1] et Loire, Fr. " 944.18
Maine, U. S.
admission U. S. hist. 973.54
[1] **history** **974.1**
indian war U. S. hist. 973.24
law temperance 178.5
mil. hist. Span. war 973.89441
U. S. civ. war 973.7441
travels **917.41**
Maine, battleship Span. war 973.891
Mains steam engineering 621.1853
waterworks 628.15
Maintenance
roads engineering 625.76
soil 631.45
Maistre, Xavier de Fr. fic. 843.64
Maize agriculture 633.15
Majagua " 633.564
Majolica pottery 738
[1]Majorca history 946.7
travels 914.67
Majority
election suffrage 324.262
to legisl. bod. 328.3355
vote legislativ procedure 328.375
Making redy printing 655.32
[1]Malabar history 954.8
travels 915.48
[1]Malacca history 959.5
travel 915.95
Malachi Bible 224.99
Malacology zoology **594**
Malacostraca " **595.36**
[1]Malaga history 946.8
travels 914.68
goat 636.396
Malar bones anatomy 611.7163
Malaria hygiene 613.14
marshes 614.772
Malarial fever diseases 616.936
public helth **614.53**
Malarious soils " " 614.775
Malay
[1] **archipelago history** **991**
travels **919.1**
game poultry 636.58815
[1] peninsula history 959.5
Polynesian languages 499
poultry 636.5854
[1]**Malaysia history** **991**
Male
functions of generation **612.61**
servants dom. econ. 647.22
Malebranche Fr. philos. 194.2
Males
adult stockbreeding 636.08231
young " 636.08237
Malformation of teeth 617.64
Malformations
animal comp. anat. 591.159
human anatomy 611.012
somatology 573.9
surgery **617.3**
vegetable botany 581.22
Malherbe, F. de Fr. poetry 841.41
Malignant tumors pathol. 616.994
Malines, coucou de 636.548
Malleability molec. phys. 539.51
Malleus anat. of ear 611.857
Malmström, B. E. 839.7463
Malpighiaceæ botany 583.214
Malpighian bodies anat. 611.415
Malposition of teeth 617.64
Malpractis law 343
public helth 614.26
Malt liquors brewing 663.3
[1]Malta history 945.8
knights of 929.711
Malteries architecture 725.42
Maltese goat 636.395
swine 636.45
Malthusianism population 312
Maltose nutrition 612.39614
Malvaceæ botany 583.17
Malvales " **583.17**
Malvern Hill U. S. civ. war 973.7327
Mamelukes Egyptian hist. 962
Mamiani della Rovere, T. 854.76
Mammalia paleontology **569**
zoology **599**
Mammary
artery, external anat. 611.1341
internal " 611.1345
glands anatomy **611.69**
physiology **612.664**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Mammary
lymf glands anat. 611.4642
secretion animals 591.146
Mammee apple 634.654
Mammillary tubercles anat. 611.8142
Mammonism ethics 174.5
Mammoth
cave physical geografy 551.44
paleontology 569.6
zoology 599.6
Mamon fruit culture 634.414
[1]Mamuret el Aziz hist. 956.6
Man
anatomy 611
antiquity prehist. arch. 571
nat. hist. of man 573.3
doctrinal theology 233
ethnografy 572
in the iron mask biog. 920.8
[1] Isle of history 942.89
mammals 599.9
mental characteristics 136
faculties 150
natural history of 573
origin of evolution 575.8
nat. hist. 573.2
theol. 213
physiology 612
Management
farm economics 631.1
in pregnancy 618.24
library economy 025
of household 647
normal labor 618.44
state properties 336.11
puerperal state 618.6
Manager, farm 631.1152
household 647.21
Managers Y. M. C. A. 267.333
Manassas, Va. U. S. civil war
1st battle 973.7314
2d battle 973.7328
Manasses, prayer of Apocr. 229.6
Mancelle swine 636.443
[1]Manche, France history 944.21
[1]Manchester, Eng. " 942.72
travels 914.272
[1]Manchuria, China history 951.8
Mandarin duck 636.59785
orange 634.322
Mandeville, B. de Eng.hum. 827.53
Mandible bone anatomy 611.7164
joint " 611.724
Mandibular nerv anatomy 611.83156
Mandolin stringd instrum. 787.6
Manetti, Antonio Ital. fict. 853.23
Maneuvering machinery 623.436
Maneuvers mil. science 355.5
Manfredi, E. Ital. poetry 851.56
Mangabotti, A. dei " fict. 853.24
Mangalicza swine 636.472
Manganese
chemistry 546.71
metallurgy 669.7
ores economic geology 553.46
Mangel, half sugar 633.416
wurzel 633.417
Mangle laundry mach. 648.45
Manholes
in sewers 628.253
steam engineering 621.18455
underground elec. lines 621.319234
Mania mind and body 132.1
puerperal obstetrics 618.76
Maniacs lives 920.8
Manichæism heresies 273.2
Manifolding
writing 652
Manila, battle Span. war 973.895
Manilius, Marcus Lat.poet. 871.5
Manipulation
practical chemistry 542
therapeutics 615.82
[1]Manistee city, Mich. hist. 977.462
[1] co. " " 977.462
[1]Manitoba, Canada " 971.27
[1]Manitoulin ilands, Ont. " 971.3155
[1]Manitowoc co. Wis. " 977.567
Manly exercizes sports 796
Manners
and customs, general 390
local, see special countries
of children dom. econ. 649.6
Mannose nutrition 612.39613
Manometer
pneumatics 533.82
practical chemistry 542.77
steam engineering 621.1847
Manor houses architec. 728.83
Manors polit. economy 333.3
Manrique, Jorge Span. poet. 861.24
Mansard roofs
architectural construction 721.59
design 729.35
[1]Mansfield, O. history 977.1281
Mansions architecture 728.3

Manslaughter law 343
Månsson, P. Swed. misc. 839.781
Mantels decoration 743
fixt furniture 729.95
Mantes fowls 636.547
Manual
alfabets 371.912
training education 371.42
Manuals
business commerce 658
collectors biology 579
legislativ procedure 328.371
[2] special, see subject
Manuel, Juan Span. misc. 868.13
Manufactories architec. 725.4
engin'g 621.7
Manufacturers credits 332.312
Manufactures 670
chemic technology 660
military resources 355.26
production 338
public helth 614.7
state control 351.824
Manufacturing
processes elec. eng. 621.318
works engineering 621.7
Manure, stable agric. 631.86
air pollut. 614.761
spreders 631.3336
Manures
fertilizers agriculture 631.86
sewage san. engin'g 628.38
vegetable agric. 631.87
Manuscript catalog lib.econ. 025.3
Manuscripts
Bible 220.4
book rarities 091
copyright 655.62
diplomatics 417
Latin diplomatics 471.7
[3] other languages
library administration 025.171
selection publishing 655.51
[4]Manx language 491.64
Manzoni, Ales. Ital. fict. 853.72
poet. 851.73
Map
cases library admin. 025.8
storage 022.485
drawing in schools 910.7
making 526.98
projection geodesy 526.8
Maple sugar plants 633.64

Maps 912
aerial aeronautics 629.145
astronomic, general 524
moon 523.39
planets 523.49
star 523.89
sun 523.79
classic 912.3
Great war 1914-19 940.49
removed from lib. books 024.83
school apparatus 371.67
special library material 025.176
U. S. history civil war 973.799
Mex. " 973.6299
revolution 973.399
Span. war 973.8999
war of 1812 973.5299
[4]Marathi language 491.46
[1]Marathon co. Wis. history 977.529
Marble
economic geology 553.51
inscriptions 417
Greek 481.7
Latin 471.7
[3] other lang.
lithology 552.46
sculpture 731
March, A. Catalan poetry 849.9131
March form music 786.44
to the sea U.S. hist. 973.7378
[1]Marche, France history 944.68
Marche sheep 636.3423
[1]Marches, Italy history 945.6
Marchetti, G. Ital. poetry 851.74
Marchi's tract anatomy 611.8256
Marconi wireless telegrafy 621.3842
Marcus Aurelius philos. 188.8
Marenco, L. Ital. drama 852.84
Mare's milk dairy 637.171
Margaretta (ship) capture 973.351
Margiana ancient history 939.63
Marguerite de Navarre
French fiction 843.31
Marian persecutions in Eng. 272.6
Mariana, J. de Span. misc. 868.31
Marie de France Fr. poetry 841.13
[1]Maries co. Mo. history 977.859
[1]Marietta, O. " 977.1981
Marigold 635.73
[1]Marin co. Cal. history 979.462
Marine
animals 591.92
architecture naval eng. 623.8
ship bldg 623.8

Marine
boilers 621.18422
corps navy 359
engins 621.12
fauna zoology 591.92
flora botany 581.92
hospitals institutions 362.1
insurance 368.2
law 347.7
plants 581.92
surveying 526.99
zoology 591.92
Mariners
compass magnetism 538.7
occupation hygiene 613.64
[1]Marinette city, Wis. hist. 977.534
[1] co. " " 977.533
Marini, G. Ital. poetry 851.52
Mariolatry R. cath. theol. 230.2
[1]Marion city, O. history 977.1511
[1] co. Ill. " 977.3794
[1] Ind. " 977.252
[1] Ia. " 977.783
[1] Mo. " 977.835
[1] O. " 977.151
[1] W.Va. " 975.454
Marionettes amusements 791
[1]Mariposa co. Cal. hist. 979.446
Maritime
affairs naval science 359
discovery 910.4
law 347.7
quarantine pub. helth 614.461
registry 355.22
surveying 526.99
Marivaux, P. C. de C. de
French drama 842.54
fiction 843.52
Marjoram 635.71
Mark, gospel of 226.3
Market gardening agric. 635
Marketing products agric. 631.18
Markets
architecture 725.26
cattle architecture 725.27
domestic economy 641.4
Marking
laundry dom. economy 648.12
system education 371.26
Marks
communities pol. sci. 321.2
ownership zootechny 636.0812
Marl fertilizers agric. 631.822
lithology 552.54
Marlowe, C. Eng. drama 822.32
Marmalade plum 634.432
Marmarica anc. history 939.76
[1]Marne, France history 944.32
Marnix, P. Dutch poetry 839.3127
Maronites sects 281.5
Maroons hist.of Jamaica 972.92
Marot, Clement Fr. satire 847.31
Marprelate controversy 285.9
Marque and reprisals
international law 341.3
[1]Marquesas ilands history 996.3
travel 919.63
Marquetry artistic furnit. 749
cabinet work 684
[1]Marquette co. Mich. hist. 977.496
[1] Wis. " 977.558
Marriage
communal 392.9
customs 392.5
ethics 173.1
law 347.6
registers genealogy 929.3
sacrament 265.5
vital statistics 614.17
Marrow, bone histology 611.01846
physiology 612.491
Marryat, F. Eng. fiction 823.78
Mars planets 523.43
seasons astronomy 525.54
[1]Marseilles history 944.91
travel 914.491
Marsh shorthand 653.54
Marsh sheep 636.331
swine 636.434
[1]Marshall co. Ill. history 977.351
[1] Ind. " 977.288
[1] Ia. " 977.755
[1] W. Va. " 975.416
[1] ilands " 996.8
[1]Marshalltown, Ia. " 977.7551
Marshes
drainage reclamation 631.615
hygiene of pub. helth 614.772
physical geology 551.49
Marsipobranchii fishes 597.2
Marston, J: Eng. comedy 827.34
Marsupialia mammals 599.2
Marsupialida zoology 593.76
Marthold sheep 636.3469
Martial Latin satire 877.6
Martial law pol. sci. 323.491
[1]Martin co. Ind. history 977.238
Martinez de la Rosa, F. 862.51

[1]Martinique history 972.98
travels 917.298
Martorel, Joanet Catal.fict. 849.933
Martyrs persecutions 272
Marvel, Ik Am. miscel. 818.32
Marvell, Andrew Eng.sat. 827.43
Mary
queen of Eng. Eng. hist. 942.054
Scots Scot. " 941.05
Virgin biografy 225.92
Rom. cath. theol. 230.2
[1]Maryland, U. S. history 975.2
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
travel 917.52
Mascheroni, L. Ital. poetry 851.62
[1]Mashona, Africa history 968.9
[1]Maskinonge co. Que. hist. 971.444
Masks dramatic music 782.9
Mason
and Dixon's line slavery 326.973
[1] co. Ill. history 977.355
[1] Mich. " 977.461
[1] W. Va. " 975.433
Masonry
adhesivs bilding 691.5
engin'g 620.15
anti- secret societies 366.1
bilding 693
bridges, archt 624.63
fortifications 623.123
lining mining 622.28
roofs architecture 721.52
village houses archit. 728.6
Masons secret societies 366.1
Masquerades amusem'ts 793
customs 394.2
Mass
balancing steam turbins 621.16537
catholic ritual 264.025
sacred music 783.2
law of gravity 531.54
of earth 525.11
recitativ music 784.2
[1]Massac co. Ill. history 977.3997
Massachusetts, U. S.
[1] **history 974.4**
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
King Philip's war 973.24
Shay's rebellion 973.318
travel 917.44

Massage therapeutics 615.82
Masseter muscle anat. 611.73271
[1]Massillon, O. history 977.1623
Massinger, P. Eng. drama 822.37
Master and servant fam.eth. 173.8
law 347.6
Mastersingers Ger. poetry 831.38
Mastication
muscles anatomy 611.7327
physiology 612.311
Mastitis obstetrics 618.71
Mastmaking shipbilding 623.85
Mastodon paleontology 569.6
Mastoid
cells anatomy 611.8547
ear diseases 617.87
glands anatomy 611.4632
Masts shipbilding 623.85
Matamoras
battle Mexican war 973.6234
[1] history 972.1
[1]Matane co. Que. hist. 971.4775
Matches chem. tech. 662.5
mil. engin'g 623.4541
Matchmakers
occupation hygiene 613.62
Maté agriculture 633.77
Materia medica medicin 615.1
zootech. 636.0895
Material
appropriate to library 021.16
balloon aeronautics 629.161
rooms for special lib.bldg 022.63
Materialism philosofy 146
Materials
bilding 691
bridge engineering 624.01
clothing dom. econ. 646.1
hygiene 613.481
engineering 620.1
factory storage 621.7962
foundation bridges 624.153
insulating elec. engin'g 621.31937
library bildings 022.2
bookbinding 025.7
bookcases 022.441
protectiv agric. pests 632.95
strength of engineering 620.11
molec. phys. 539.4
Maternity 618
ethics 173
hospitals 362.1
architecture 725.51
medicin 618

Mathematical
crystallografy 548.7
drawing 744
instruments 510.8
probabilities 519.2
tables 510.8
theory gravity exper. 526.71
of music 781.1
tides 525.61
Mathematicians biografy 925.1
Mathematics 510
Mathews, C. Am. drama 812.32
Mathurins monastic order 271.79
Matins catholic ritual 264.023
Matriculation schools 371.21
Matrimony, *see* Marriage
Matter
metaphysics 117
physical chemistry 541
physics 530.1
properties of living 577
Matthew, gospel of 226.2
Matthias German history 943.035
Mattias, Canon Swed. misc. 839.781
Matting dom. economy 645.1
lib. " 022.962
Mattock 631.3116
Maturity physiology 612.66
plant growth 631.5473
Mauritania ancient hist. 939.71
Mauritius hemp 633.573
[1] history 969
Mausoleums 718
Maxillary
artery, external anat. 611.13323
internal " 611.13328
bone, inferior " 611.7164
superior " 611.7161
glands, internal " 611.462
nerv, inferior " 611.83156
superior " 611.83154
Maxim gun ordnance 623 4225
Maxima and minima
algebra 512.3
calculus 517.27
geometry 513.19
Maximilian 1 Ger hist. 943.029
2 " " 943.033
[5]**Maxims Eng. literature 828**
law 340.9
[2] on special topics see subject
May 1 labor holidays 331.817
Maya
architecture 722.9
civilization antiq. 913.72
Mex. hist. 972.015
language 497
Mayaceæ botany 584.37
Maydeae grass crops 633.281
[1]Mayenne, France hist. 944.16
Mayflower descendants soc. 369.124
Maynard, F. Fr. poetry 841.42
[1]Mayo, Ireland history 941.73
Mayor Fr. local gov. 352.0447
Mazurka piano music 786.44
Meal mills architecture 725.47
Meals domestic economy 642
Mealy bug pests 632.75
Mean
time solar day 529.1
value probabilities 519.6
Measles diseases 616.915
public helth 614.523
Measurements *see* Mesurements
Measures, *see* Mesures
Measuring, *see* Mesuring
Meat
as food dom. econ. 641.3
food values 641.12
hygiene 613.28
physiology 612.39281
cookery 641.6
fresh, inspection of 614.317
markets dom. econ. 641.4
preservation chem. tech. 664.9
preservd, inspection of 614.319
production zootechny 636.0883
supply production 338.1
[1]Meath, Ireland history 941.82
[1]Mecca, Arabia history 953.2
travels 915.32
sheep 636.385
Mechanic arts and trades 680
servis lib. econ. 023.77
Mechanical
arithmetic 510.8
drawing 744
engineering 621
equivalent heat 536.7
haulage mining 622.66
injuries, effects of med. 616.982
musical instruments 789
preparation mining 622.7
rectifiers elec. eng. 621.31372
refrigeration engin'g 621.5
remedies therapeutics 615.81

Mechanical
stokers steam engin'g 621.1836
tackle engin'g 621.863
threshers 631.3612
trades **680**
training 607
in schools **371.42**
Mechanics
applied **620.1**
factory organization 621.705
institutes exhibitions 606
liens law 347.2
lives **926**
physics **531**
Mechanism
animal physiol. **612.76**
engineering **621.8**
of labor obstetrics 618.41
steam engin **621.11**
Meckel's diverticulum 611.3412
ganglion 611.89154
[1]Mecklenburg, Ger. hist 943.17
Mecklenburg
declaration Am. revol. 973.313
horse 636.143
sheep 636.3332
swine 636.434
[1]Mecosta co. Mich. history 977.452
Medal of honor legion 369.114
Medallion
windows arch. decora. 729.82
Medallions numismatics 737
Medals carving 736
numismatics 737
Media ancient history 935.3
Median nerv anatomy 611.8335
Mediastinal artery anat. 611.1355
glands " 611.4644
Mediastinum " 611.27
testis " 611.6315
Mediatized
states political science 321.026
Medic, black forage crop 633.31
Medical
analysis chemistry **543.4**
biografy 926.1
books lib. restriction 024.673
botany econ. botany 581.63
materia medica **615**
dep't Great war **940.475**
U.S. hist. civ. war **973.775**
revol. **973.375**
diagnosis **616.07**
Medical
education **610.7**
state control 614.21
electricity elec. engin'g 621.3915
physics 537.87
therapeutics 615.84
ethics 174.2
inspection of schools 371.712
jurisprudence 340.6
museums 610.77
police 614.29
practis pathology **616**
state control of 614.25
profession, *see* Medicin; Physicians
schools **610.71**
societies **610.6**
testimony 614.23
law 340.6
zoology **591**
Medicated baths
admin. of medicin 615.67
Medication
admin. of medicin **615.6**
hypodermic 615.63
Medici, L. de Ital. poetry 851.23
Medicin **610**
chemic analysis **543.4**
dental **617.6**
economic botany 581.63
zoology 591.63
legal 340.6
preventiv pub. helth **614**
state control of **614.2**
veterinary **619**
Medicinal
plants agriculture 633.88
materia medica 615
use of stimulants 178.1
Medicins
general action thera. **615.5**
groupt by effects **615.7**
patent adulterations 614.353
state control 614.27
therapeutics 615.88
Medico-legal relations 614.23
Medieval
architecture **723**
art, history of 709
customs and costumes **390**
designs **745**
Europe history **940.1**
[3] **Latin** **479**
philosofy **189**
science 502

Medieval
sculpture 734
therapeutics 615.89
[1]Medina co. O. history 977.135
Mediotarsal joints anat. 611.72854
Meditations theology 242
Mediterranean sea
physical geology 551.462
poultry **636.55**
travels 910.4
Medium woold sheep 636.323
Mediums spiritualism 133.9
Medlar 634.15
Medo-Persia anc. history 935
Medulla oblongata
action on blood vessels 612.1812
hart physiol. 612.1785
respiration " 612.282
anatomy 611.818
physiology 612.828
Medullary
layers embryology 611.01351
sheath histology 611.018834
velum, superior anat. 611.8163
Medusae zoology 593.7
Meekness ethics 179.9
Meerschaum econ. geol. 553.61
Meetings
library propagandism 021.78
staff privileges 023.68
of library trustees 023.38
war Great war 940.461
U. S. civil war 973.761
[1]Megantic co. Que. hist. 971.4575
[1] Lake co. Que. " 971.469
Megaric philosofy 183.6
Megaris ancient history 938.4
Megatherium paleontol. 569.3
Megrim diseases 616.857
[1]Meigs co. O. history 977.199
Meissner swine 636.433
Melancholy mind and body 132.3
[1]Melanesia history 993
travels 919.3
Melaphyr lithology 552.39
Melastomaceæ botany 583.43
[1]Melbourne history 994.5
travels 919.45
Meliaceæ botany 583.251
Meliorism philosof. syst. 149.5
Melissus Gk philosofy 182.3
Melodeon music 786.9
Melody theory of music 781.2
Melon papaw 634.651
Melons 635.61
Melting prac. chem. 542.48
points thermochem. 541.36
Melville, Herman Am. fic. 813.36
Members
exofficio legis. bodies 328.332
number " " 328.3349
Membership
fees, library 024.21
legislativ bodies 328.33
without vote 328.331
lists, legislativ official 328.338
unofficial 328.339
Membrana tympani
ear diseases 617.85
Membranes
admin. of medicin by 615.66
cellular histology 611.01818
of the hart diseases 616.11
Memoirs biografy 920
scientific soc. 506
Memorial
day school observance 371.365
U. S. civil war 973.768
sermons biografy 920
sermons 252.9
Memorials
American revolution 973.365
Great war 1914–19 940.465
U. S. civil war 973.765
Memory
in animals zoology 591.51
mental derangements 132.8
faculties 154
physiology 612.8212
Memphis, Tenn.
U. S. civil war 973.752
Men, clothing for 646.32
hedgear for 646.52
Mena, Juan de Span. poet. 861.22
Menageries amusements 791
zoology 590.7
Menander Greek drama 882.6
[1]Menard co. Ill. history 977.355
Mencius oriental philos. 181.1
Mendelism botany 581.158
Mendicancy
state control 351.763
Mendicant orders 271
Mending dom. econ. 646.24
[1]Mendocino co. Cal. hist. 979.415
Mendoza, D.H.de 861.36
I. L. de 861.23
Menedemus Gk philos. 183.7

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Meningeal artery, great 611.133289
Meninges
cerebrospinal diseases 616.82
of brain anatomy 611.819
physiology 612.8241
spinal cord anatomy 611.829
Meningitis diseases 616.82
Menispermaceæ botany 583.116
Mennonite church 289.7
Mennonites biografy 922.87
[1]Menominee city, Mich. hist. 977.495
[1] co. Mich. " 977.495
Men's clothing dom. econ. 646.32
hats " " 646.52
Menstruation gynecology 618.17
physiology 612.662
Mensuration arithmetic 511.8
surveying 526.9
Mental
capacity of women
education 376.2
psychology 136.1
characteristics 136
derangements medicin 616.8
mind and body 132
development education 370
disability, inherited hyg. 613.92
faculties 150
of animals zool. 591.51
healing 615.851
heredity mind and body 136.3
hygiene 131
overwork mental hyg. 131
philosofy 150
photografs 139
physiology mind & body 131
physiology 612.821
science 150
Menubrium anatomy 611.713
Menus domestic econ. 642.1
Menzini, B. Ital. sat. 857.56
Mercantil
law 347.7
libraries 027.2–.3
manuals 658
rules arithmetic 511.8
system econ. theory 330.151
theory and practis 658
[1]Merced co. Cal. hist. 979.458
Mercenaries Am. revol. 973.342
[1]Mercer co. Ill. history 977.339
[1] Mo. " 977.821
[1] N. J. " 974.965
[1] O. " 977.1415
[1]Mercer co. Pa. " 974.895
[1] W. Va. " 975.474
Mercersburg theology 230.41
Merchant servis ocean 387
Merchants bus. ethics 174.4
lives 923.8
Mercurials cathartics 615.7326
Mercury
chemistry 546.58
materia medica 615.258
metallic poisons 615.927
metallurgy 669.7
ores economic geol. 553.45
planets 523.41
transits astronomy 523.91
vapor lamps elec. light 621.3274
Mercy, sisters of 271.92
Meridian
circles astron. instrum. 522.33
line practical astron. 522.31
spheric " 522.76
Meridional instruments 522.3
Mérimée, Prosper Fr. fic. 843.81
Merino sheep 636.36
[1]Merioneth, Wales hist. 942.92
Merit system, *see* Civil service reform
Mermaids folklore 398.4
Merovingians Fr. history 944.01
Merrimac
and Monitor U.S.civ.war 973.7324
[1] co. N. H. history 974.27
naval hist. U.S.civ.war 973.752
sinking U.S.war w. Spain 973.895
Merycismus physiology 612.3275
Mesencephalon anatomy 611.815
Mesenchyme embryology 611.013395
histology 611.01825
Mesenteric
arteries anat. 611.1365
celiac " 611.1364
umbilic " 611.1364
nervs " 611.8393
vein, inferior " 611.1492
superior " 611.1491
Mesentery anat. 611.383
diseases of 616.38
Mesh connections elec. eng. 621.3191332
Mesmerism mind and body 134
Mesocele anatomy 611.8156
Mesodermic organs embry. 611.0136
Mesogastric region anat. 611.955
Mesology 612.0144
Mesonephros anatomy 611.619

Mesopharynx anatomy 611.3272
Mesopotamia anc. history 935.8
[1] mod. " 956.7
travel 915.67
Mesozoic
period geology 551.76
Messala Corvinus Lat. lit. 875.5
Messengers
legislativ employees 328.3625
library economy 023.78
public servis 385
train'g animals as zoot. 636.088661
Messenia ancient history 938.9
Messenius, J. Swed. drama 839.7221
Messiah doctrinal theol. 232.1
Mesurements
electric engineering 621.37
physics 537.7
mental elem. educ. 372.102
psychology 136.702
practical chemistry 542.3
Mesures and weights
metrology 389
state control 351.821
Mesuring
instruments metrology 389
physics 530.8
of angles crystallografy 548.7
surveying 526.93
distances " 526.92
heat electric meth. 536.53
hights surveying 526.94
light optics 535.2
ventilation mines 622.46
Metabolism
of nitrogen in urea 612.46123
plants 581.13
physiologic chemistry 612.0153
physiology 612.39
Metacarpal bones anat. 611.7178
Metacarpophalangeal joints 611.7278
Metacarpus anat. 611.7178
Metagenesis animals 591.163
Metal
beams bridge engin'g 624.227
filaments elec. lighting 621.3264
lath masonry 693.66
pavements engin'g 625.87
rollers agriculture 631.3141
roofing bilding 695.4
sheet, shop mfg plant 621.792
Metalized filaments
elec. light 621.32631
Metallic
ceilings architec. 721.74
doors " 721.82
floors and flooring " 721.64
ores econ. geol. 553.3–4
poisons therapeutics 615.925
roofs architecture 721.54
bilding 695.4
salts emetics 615.731
tractors cures 615.856
tremor diseases 616.862
Metallurgy 669
Metals
bearing mech. engin'g 621.822
bilding materials 691.8
coinage 332.41
history 669
inorganic chemistry 546.3
manufactures 671
mining 622.34
organic chemistry 547.9
transmutation of 540.1
Metalwork, artistic 739
Metalworking tools, mach. 621.9
Metamorphic rocks geol. 552.4
Metamorphism phys. geol. 551.6
Metamorphosis
botany 581.34
comparativ physiol. 612.651
of insects 595.7
zoology embryology 591.34
variation 591.151
Metaphors rhetoric 808
Metaphysics 110
Metapore anat. 611.8185
Metatarsal bones " 611.7188
Metatarsophalangeal joints 611.7288
Metathalamus anatomy 611.8146
Métayage 631.114
Metempsychosis metaphys. 129.4
Metencephalon anatomy 611.817
Meteoric points astron. 523.53
showers " 523.53
Meteorites lithology 552.6
Meteorology
natural history of man 573.4
physical geology 551.5
Meteors and comets 523.56
astronomy 523.5
systems of 523.54
Meter
transformers elec. eng. 621.31438
weights and mesures 389

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Meters
electric engineering **621.373**
electric light 621.3286
[3] English prosody 426.5
gas chemistry 542.76
telefone stations 621.38798
water 628.17
Methemoglobin physiol. 612.11116
Method
of directions geodesy 526.54
exhaustions calculus 517.1
independent angles 526.51
least squares orbits 521.36
probab. 519.8
repetitions geodesy 526.56
summoning legis. bodies 328.351
Methodist church **287**
episcopal church 287.6
Methodists biografy **922.7**
Methodology metaphys. 112
Methods
business 658
drainage agriculture 631.62
in special topics see subject
literary lib. econ. **029**
of education **371**
feeding zootechny 636.0842
statistics 311
studying science 507
surveying 526.91
teaching chemistry 540.7
protectiv agriculture 632.94
Metric system metrology 389
Métissage zootechny 636.082432
Metritis obstetrics 618.73
Metrology 389
[1]Metz history 943.45
travels 914.345
Meung, Jean de Fr. poetry 841.18
[1]Meurthe et Moselle, Fr.
history 944.382
[1]Meuse, France history 944.381
Mexican
indians **970.1**
war Mexican history 972.05
U. S. " **973.62**
nat'l ass'n of veterans 369.146
pension act U.S. hist. 973.85
wild turkey 636.59212
Mexico
administration **354.72**
antiquities **913.72**
architecture **720.972**
botany **581.972**
Mexico
city battles Mex. war 973.6238
capture " " 973.6239
[1] history 972.5
travels 917.25
finance **336.72**
geology **557.2**
gulf of phys. geol. 551.463
[1] **history** **972**
maps **912.72**
schools, public **379.72**
statistics **317.2**
travel **917.2**
treaties **341.272**
other topics see table 1
Mezzotint 766
Mhains domestic animals 636.293
[1]Miami co. Ind. history 977.284
[1] O. " 977.148
Mica economic geology 553.9
Micah Bible 224.93
Michael 6 Byzantine hist. 949.502
Angelo, jr Ital. lit. 852.51
Michel, Jean French dram. 842.22
Michigan
admission U. S. hist. 973.56
[1] **history** **977.4**
For military history see 973.52474, 973.7474 and 973.89474
[1] city, Ind. history 977.291
lake travel 917.74
[1]Michoacan, Mex. " 972.3
Micrembryeæ botany **583.925**
Microbes " 589.95
soil bacteriology 631.46
Microfone
electrophysiology 612.01442182
physics 537.82
Microfotografy
fotografy 778
microscopy 578.4
Micrology, animal 591.8
human **611.018**
Micrometers astronomy 522.53
[1]Micronesia history 996.5
Micro-organisms etiology 616.01
Microphone electrophys. 612.01442182
physics 537.82
Microphotografy
microscopy 578.4
photografy 778
Micropyle zoology 591.172
Microscopes **578**
optics 535.82

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Microscopic
analysis of water 613.33
life invertebrates 592
material, preparation of 578.6
Microscopy 578
animal histology 591.8
human " 611.018
lithology 552.8
study of disease 616.077
vegetable histology 581.8
Microspermeæ botany 584.1
Microtome microscopy 578.4
Micturition physiol. 612.46711
Midbrain anatomy 611.815
Middens
and privies scavenging 628.41
kitchen prehist. arch. 571.93
Middle
ages European history 940.1
breaker 631.3126
burster 631.3126
class political science 323.32
ear anatomy 611.854
diseases of 617.84
physiology 612.854
High German language 437.02
poetry 831.2
[1] **States, U. S. history 974**
For military history of all or individual states, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
Suffolk swine 636.4272
woold sheep 636.323
Yorkshire swine 636.4271
Middleman political econ. 331.236
[1]Middlesex co. Ct. history 974.66
[1] Eng. " 942.1
[1] Mass. " 974.44
[1] N. J. " 974.941
[1] Ont. " 971.325
Middletown, Va. battle 973.7377
Midges pests 632.77
[1]Midland co. Mich. hist. 977.448
[1]Midlands, Eng. " 942.4–5
Midshipman's butter fruit 634.653
Midwifery, antiseptics in 618.89
obstetrics **618.2**
[1]Mifflin co. Pa. history 974.846
Fort Am. revol. 973.3337
Migrations
of animals 591.52
men ethnology 572.3
Mikkelsen, Hans, Dan.misc. 839.8823
Milá y Fontanals, M. 868.53
[1]Milan history 945.2
travels 914.52
Mildew agriculture 632.4
botany 589.2
Military
academies 355.07
aeronautics 623.74
and naval arts 355
naval order of U. S. 369.113
antiquities 355.09
architecture, bildings 623.61
fortifications 623.1
balloons engin'g 623.74
biografy 923.5
bounties, *see* Bounties
bridges 623.65
celebrations mil. science 355.16
disciplin " 355.13
drill school gymnastics 371.733
duels mil. science 355.13
engineering 623
geografy mil. science 355.47
hierarchy 355.33
history 355.48
of special countries see country
history Great war 940.4
U. S. civil war 973.74
Mex. war 973.624
revolution 973.34
Span. war 973.894
war 1812 973.524
honor 355.13
hospitals 362.1
hygiene 613.67
law 355
courts martial 344
lite 355.1
order of foren wars U. S. 369.115
the loyal legion 369.152
organization in schools 371.43
pensions 351.5
photografy 623.72
railways 623.63
religious orders 929.7
roads mil. engin'g 623.62
sanitation " " 623.75
science 355
servis suffrage 324.171
signals 623.7
society of the war of 1812 369.143
surgery 617.99
surveying geodesy 526.99
mil. eng. 623.71

Military
telefony mil. eng. 623.733
telegrafy " " 623.732
topografy " " 623.71
Militia **355**
Milk
agriculture **637.1**
analysis adulterations 614.321
chemistry 543.2
and its products adult. **614.32**
as food physiology 612.39284
condenst dairy 637.142
cooler 637.1321
cure therapeutics 615.854
dairy **637.1**
depots dom. econ. 641.4
dietetics 613.28
fever obstetrics 618.71
food for infants 613.22
pans 637.1327
physiologic zoology 591.146
physiology **612.664**
sugar cheesemaking 637.345
milk composition 637.1272
Milkcurdling ferments
gastric juice 612.3216
physiology 612.664171
Milkers, mechanical 637.125
Milking 637.124
Mill, J: S. British philos. 192.7
Mill
dams hydraulic eng. 627.8
water engins 621.29
gearing and machinery **621.85**
stones mechan. eng. 621.922
work engineering **621.8**
Millennium theology 236.3
Miller, Joaquin Am. poet. 811.45
[1]Miller co. Mo. history 977.856
Millerites sects 289.3
Millers' occupation hyg. 613.63
Millery sheep 636.3469
Millet 633.171
Millevoye, C: H. Fr. poet. 841.67
Milliken repeaters teleg. 621.38324
Millinery clothing **646.5**
trades 687
Milling tools 621.91
Millomaiz cereals 633.177
Mills
and manuf'g works **621.7**
cotton, woolen, etc. 677
[1] co. Ia. history 977.774
flour, meal and feed arch. 725.47
Mills
paper arch. 725.46
manufactures 676
textil architec. 725.41
woodworking " 725.44
Milos swine 636.472
Milton, John Eng. poet. 821.47
[1]Milwaukee city, Wis. hist. 977.595
[1] co. " " 977.594
Milwrighting engin'g **621.7**
Mimeograf offis fittings 652
Mimetic arts 792
variation 591.155
Mimetism comp. physiol. 612.0162
Mimicry " " 612.0162
social ethics 177.1
Mind **150**
and body **130**
child study **136.7**
cure therapeutics 615.851
educational psychology 370.15
in animals zoology 591.51
physiologic psychology **612.821**
psychology **150**
readers' lives 920.9
reading mesmerism 134
zoology 591.51
Mine
cars engineering 622.63
fires " 622.82
Run, campain U. S. hist. 973.7353
surveying engineer'g 622.14
Mineplanters shipbilding 623.826
Mineral
amendments soil **631.82**
cements chem. tech. 666.9
econom. geol. 553.68
constituents of food 641.17
[1] co. W. Va. history 975.494
foods physiology **612.3926**
zootechny 636.0877
irritant poisons therap. **615.92**
oil refining air pollut. 614.724
oils chemic tech. **665.4**
econom. geology 553.28
salts, dialysis of physiol. 612.3821
in bile " 612.35714
blood " 612.126
springs econom. geol. **553.7**
substances in milk 612 66416
phys. chem. 612.01531
surveys 622.13
trades air pollution 614.72
veins ore deposits 553.19

Mineral
waters adulterations 614.348
artificial 663.6
econom. geol. 553.7
hygiene 613.38
therapeutics 615.79
wool linings masonry 693.67
Mineralogy 549
determinativ 549.1
of the Bible 220.8549
Minerals petrografy 552.81
Mines
military engineering 623.26
mining 622
ownership pol. econ. 333.8
state control 351.823
suffocation in pub. safety 614.82
[1]Mingo co. W. Va. history 975.448
Miniature books 099
Miniatures painting 757
Minie ball small arms 623.4552
Minima and maxima algeb. 512.3
geom. 513.19
Minimum
wage polit. econ. 331.215
Mining
companies min. engin'g 622.06
dangers and accidents 622.8
economic geology 553
engineering 622
engins steam eng. 621.13268
laws 622.007
machinery, hydraulic 621.269
practical 622.2
products polit. econ. 338.2
prospectuses 622.19
reports 622.009
Minisink Amer. revol. 973.3353
Minister eccles. pol. 262.14
Ministerial authority 262.8
Ministers
French government 354.4404
German state " 354.4308
library propagandism 021.76
lives of 922
Ministration to sick and ded 265.8
Ministries of state architec. 725.12
war " 725.12
Ministry
ecclesiastic polity 262.1
German government 354.4306
lay 262.14
parish work 258
religion 250
Minnesingers Ger. poetry 831.2
Minnesota, U. S.
admission U. S. hist. 973.68
[1] history 977.6
For military history, see 973.52476, 973.7476 and 973.89476
[1]Minorca history 946.7
travels 914.67
Minorcan fowls 636.562
Minority representation 324.223
Minors law 347.6
Minot, L. Eng. poetry 821.14
[5]Minstrelsy " " 821
negro voc.mus. 784.7
Mints field crops 633.822
garden " 635.72
polit. economy 332.46
Minute books curiosa 099
Miocene period geology 551.782
[1]Miquelon ilands, N. F. hist. 971.8
Miracle plays
English literature 822.1
general history 809.2
religion 244
theater 792
Miracles doctrins 231.7
New Testam't 226.7
postbiblical 231.7
Mirage optics 535.3
Mirrors " 535.87
Miscarriage obstetrics 618.39
Miscegenation ethics 173.1
hygiene 613.9
law 347.6
Miscellanies see subjects
[5]**Miscellany Eng. liter. 828**
Miscount of ballots frauds 324.275
Misers, lives of 920.8
Mishna Judaism 296
Misrule, Spanish, in Cuba
U. S. history. 973.891
Missals catholic ritual 264.025
illuminated 096
[1]Missaukee co. Mich. hist. 977.466
Missing link evolution 575.8
Missionaries, lives of 922
Missionary Ridge, battle 973.7359
schools 377.6
Missions
city 266
home and foren 266
music for sacred music 783.7
parish 269
Roman catholic 266.2

[1]Missisquoi co. Que. hist. 971.462
Mississippi
bubble loan institutes 332.31
[1] co. Mo. history 977.898
river description 917.7
discov. U. S. hist. 973.16
state
admission U. S. hist. 973.54
[1] history 976.2
secession U. S. hist. 973.713
For military history of state, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
valley description 917.7
Missouri
compromise U.S. civ. war 973.7113
currant 634.724
river description 917.78
state admission 973.54
[1] **history** **977.8**
For military history of state, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89
[1]Mistassini co. Que. hist. 971.411
Mistral, F. Provençal poet. 849.146
Mitchell, D. G. Am. misc. 818.32
[1]Mitchell co. Ia. hist. 977.7234
Miter sacred ornaments 247.6
Mites animal parasites 616.9685
zoology 595.4
Mithradatic war Rom. his. 937.05
Mithraic worship 295
Mitral valvs anatomy 611.12642
Mixing machinery sewage 628.342
Mixt drinks adulterations 614.349
chem. tech. 663.8
state pol. sci. 321.02
Mnemonic derangements 132.8
Mnemonics 154.1
Moab ancient history 939.46
Moabite stone 492.617
Moats fortifications 623.117
[1]Moberly co. Mo. history 977.8281
Mobile, Ala.
bay U.S.civ. war 973.7372
nav. his. " 973.754
campain " 973.7388
Mobs administration 351.752
Mocking birds care of 636.686
zoology 598.8
Model
tanks shipbilding 623.83
Modeling elem. educ. 372.53
sculpture 731
Models art study 707
[1]Modena history 945.4
travel 914.54
Modern
analytic geometry **516.5**
architecture **724**
church history 270.8
costumes and customs **390**
dance music 786.46
European history **940.2**
geometry **513.5**
[4] **Greek language** **489**
[5] **literature** **889**
history **940–999**
[3] **Persian languages** **491.55**
philosofers **190**
lives **921**
Sabbath theology 263.2
sculpture 735
Modesty ethics 179.9
[1]Modoc co. Cal. hist. 979.423
indian war U.S.hist. 973.82
Modulus of mach. physics 531.43
Moesia ancient history 939.88
Moguls Indian " 954
locomotivs 621.13262
Mohair dom. econ. 646.13
manufactures 677
Mohammedan architecture 723.3
biografy 922.97
cookery 641.567
Mohammedanism 297
Mohawk
indians 970.3
valley massacre
Am. rev. 973.3345
Moisture
conditions of life 577.4
hygiene 613.14
physical geografy 551.57
prevention in museums 579.83
soil agriculture 631.432
public helth 614.772
therapeutics 615.833
Molar pregnancy 618.39
Molasses chem. technol. 664.1
Molbeck, C. K. F. Dan. lit. 839.8265
Mold fungi 589.2
loft shipbilding 623.83
[1]Moldavia, Rumania hist. 949.8
Moldavian sheep 637.373
swine 636.474

Moldboard plow, double 631.3126
turning 631.3124
Molding cheesemaking 637.3338
metal manufac. 671
Moldings
architecture 729.31
carvd arch. decoration 729.55
painted " " 729.45
Molds, butter 637.2328
Mole plow 631.3126
Molecular physics 539
Molecules
displacement of 539.5
theoretic chemistry 541.2
Moles zoology 599.3
Molière, J. B.P. Fr. drama 842.42
Molina, T. de Span. " 862.33
[1]Moline, Ill. history 977.339
Molinists heresies 273.7
persecution 272.5
Molino del Rey, battle 973.6239
[1]Molise, Italy history 945.71
Mollusca paleontology 564
zoology 594
Molluscoidea 594.6
Mollusks fishery 639.4
Molly Maguires
labor organizations 331.88
Molting embryology 591.34
[1]Moluccas history 991.3
Molybdates mineralogy 549.74
Molybdenum chemistry 546.77
Molza, F. M. Ital. fiction 853.33
poetry 851.34
Moments statics 531.23
Monachism theology 271
[1]Monaco history 944.94
travel 914.494
[1]Monaghan, Ireland hist. 941.67
Monarch Eng. government 354.4203
Monarchic institutions 321.6
Monarchs
biografy 923.1
of states Ger. gov't 354.4307
Monarchy, absolute 321.6
constitutional 321.7
Monasteries architecture 726.7
theology 271
Monastic
orders 271
schools education 377.3
Monasticism 271
Mondolingue univ. lang. 408.9
Monetary congresses 332.44
Money 332.4
administration 351.822
deposit by lib. borrower 024.14
making commerce 658
ethics 174.4
paper 332.5
prize military science 355.13
soliciting library rules 023.93
[1]Mongolia, China history 951.7
Mongolian languages 495
Mongolicza swine 636.472
Mongols history 950
Russian history 947.03
Monimiaceæ botany 583.928
Monism philosofy 147
[1]Moniteau co. Mo. history 977.852
Monitor
and Merrimac U. S. hist. 973.7324
naval history " 973.752
Monitorial system of educ. 371.41
Monitors
school government 371.57
warships naval eng. 623.825
Monkeys zoology 599.8
Monks religious orders 271
Monmouth
battle Amer. revol. 973.3342
[1] co. England 942.43
[1] N. J. history 974.946
Monmouth's rebellion 942.067
[1]Mono co. Cal. hist. 979.448
Monocacy, Md
battle U. S. civ. war 973.7369
Monocotyledonæ botany 584
Monogamy family ethics 173.2
hygiene 613.89
Monograms design 745
Monoliths prehist. arch. 571.94
Monomania insanity 132.1
[1]Monona co. Ia. hist. 977.744
[1]Monongahela val. W. Va. hist 975.451
[1]Monongalia co. W. Va. " 975.452
Monoplanes
aeronautics 629.173
Monopolies trade 338.8
state finance 336.19
Monorail
rolling stock engin'g 625.28
tracks " 625.146
Monosaccharids nutrition 612.39613
Monotony vs variety of
library work 023.701
Monotremata mammals 599.1
Monotropeæ botany 583.63

Monroe, James presidency 973.54
[1]Monroe Ind. history 977.225
travels 917.7225
[1] co. Ill. history 977.391
[1] Ia. " 977.7865
[1] Mich. " 977.432
[1] Mo. " 977.8325
[1] N. Y. " 974.788
[1] O. " 977.196
[1] Pa. " 974.825
[1] W. Va. " 975.478
[1] Wis. " 977.554
doctrin foren relations 327.73
U. S. history 973.54
Monro's foramen anat. 611.8148
Mons veneris " 611.6731
Monsoons meteorology 551.51
Monsters, fabulous 398.4
Monstrosities
animal 591.159
human anatomy 611.012
natural hist. of man 573.9
vegetable teratology 581.22
variation 581.159
Mont Blanc travels 914.449
Cenis tunnel 622.26
Montagu, Mrs E.. Eng. let. 826.62
M.. Lady " " 826.51
Montaigne, M.E.de Fr. lit. 844.31
Montana, U. S.
admission U. S. history 973.86
[1] history 978.6
military hist. Span. war 973.89486
U.S.civ. war 973.7486
Montanism heresies 273.9
Montares sheep 636.366
[1]Montcalm co. Mich. hist. 977.453
[1] Que. " 971.441
Montemayor, Jorge de 863.31
[1]Montenegro history 949.7
Monterey, battle Mex. war 973.6235
[1] co. Cal. hist. 979.476
Montesquieu Fr. essays 844.52
Montgolfier ram hyd. eng. 621.272
Montgolfières
aeronautics 629.151
Montgomery
[1] co. Ill. history 977.382
[1] Ind. " 977.248
[1] Ia. " 977.775
[1] Md. " 975.284
[1] Mo. " 977.838
[1] N. Y. " 974.746
[1] O. " 977.172
Montgomery
[1] co. Pa. " 974.812
Fort Amer. revol. 973.3335
[1] Wales history 942.94
Montgomery's
Canada exped. Am. rev. 973.3315
glands anatomy 611.691
Months, names of 529.2
Monti, Vincenzo Ital. poet. 851.64
[1]Montmagny co. Que. hist. 971.4735
[1]Montmorency co. Mich. " 977.483
[1] Que. " 971.448
[1]Montour co. Pa. " 974.839
[1]Montreal, Que. " 971.4281
travel 917.14281
Monts de piété
loan institutes 332.33
state control 351.825
Monuments
American revolution **973.365**
antiquities **913**
cemeteries 718
Great war 1914-19 **940.465**
prehistoric **571.9**
U. S. civil war 973.765
[3]Moods, signs of Eng. 422.8
[3] syntax Eng. 425.8
Moon
astronomy **523.3**
charts 523.39
effect on tides 525.62
maps observations 524.3
observation of 523.39
type printing for blind 655.38
Moonding domestic animals 636.293
Moore
Edward Eng. essays 824.61
Thomas poetry 821.75
lamp elec. lighting 621.3275
Moorish
architecture 723.3
kingdom Span. hist. 946.02
Moors, expulsion of " " 946.03
Moot courts 340.7
Mootan language 491.41
Moraceous fruits **634.36**
Moraines glaciers 551.32
Moral
agency, free doc. theol. 233.7
education **377**
expectations probabil. 519.2
government in schools 371.58
heredity metaphysics 129.2
theology 233.3

Moral
philosofy **170**
science ethics **170**
sentiment " 171.2
systems **171**
Morals
and church 261.4
history of ethics 170.9
laboring classes pol. econ. 331.84
of the press ethics 179.1
journalism 070.11
war ethics 172.4
Moratin, L.F.de Span.dram. 862.42
N.F. de poet. 861.41
[1]Moravia history 943.72
Moravian brethren sects 284.6
[4] **language** **491.87**
missions 266.46
Morbid anatomy 616.078
habits hygiene 613.87
Morbidity public helth 614.15
[1]Morbihan, France hist. 944.13
More, T: English fiction 823.2
[1]Morea history 949.5
[1]Morelos, Mex. " 972.4
[1]Moresnet history 949.3
travels 914.93
Moreto y Cabaña, A. 862.37
Morfe common sheep 636.3236
Morfogeny nervous system 612.8013
physiology 612.605
Morfology
animals **591.4**
comparativ philology 415
[3] English language 425.1
physiologic
of intestin **612.335**
leucocytes 612.1129
milk 612.6645
muscles 612.7419
nervous stimulation **612.815**
optic nerv 612.84315
pancreas 612.345
salivary glands 612.3135
secretions 612.409
stomach 612.325
swet 612.7925
plants **581.4**
Morgagni's hydatids anat. 611.633
[1]Morgan co. Ill. history 977.346
[1] Ind. " 977.251
[1] Mo. " 977.853
[1] O history 977.194
[1] W. Va. " 975.496
Morgan horse 636.1281
Morganatic marriage
customs 392.6
ethics 173.1
Morgan's Ohio raid 973.7342
[1]Morgantown, W. Va. hist. 975.453
Moringeæ botany 583.299
Mörk, J. H. Swed. fiction 839.7341
Mormonism 298
Mormons biografy 922.98
Morning prayer
Anglican ritual 264.033
family devotions 249
personal religion 248
[1]Morocco history 964
travel 916.4
Morphin habit ethics 178.8
Morphogeny
nervous system 612.8013
physiology 612.605
Morris, W: Eng. poetry 821.85
Morris
[1] co. N. J. history 974.974
iland, S. C. U.S. civ. war 973.7351
Morristown, N. J. Am. rev. 973.367
[1]Morrow co. O. history 977.1516
Morse automatic telegraf 621.38241
code elec. " 621.382151
Mortality
law of insurance 368.3
statistics 312
pub. helth 614.12
Mortar
bilding material 691.5
engineering 620.15
mounts ordnance 623.4323
Mortars
chemic apparatus 542.22
technology 666.9
ordnance 623.4214
prehistoric archeology 571.27
Mortgage companies 332.313
Mortgages law 347.2
Mortification surgery 617.25
Mortmain law 347.2
Morton's Ford, Va.
U. S. civil war 973.7362
Mortuary
bildings architecture 726.8
customs **393**
designs sacred ornam'ts 247.3
statistics population **312**
registration **614.12**
Morvan sheep 636.386

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Mosaic
law Old Testament **222.1**
windows, architec. decor. 729.85
work 747
Mosaics
architectural decoration **729.7**
floors and flooring 721.67
religious ornaments 247.4
Moscherosch, J; M. Ger.sat. 837.51
[1]Moscow history 947.3
travel 914.73
[1]Moselle, France history 944.382
Mosenthal, S.H. Ger. dram. 832.82
Moslems 297
Mosques architecture 726.2
[1]Mosquito shore, Cent. Am. 972.85
Mosquitoes
agriculture 632.77
animal parasites 591.69
parasitic diseases 616.9681
public helth 614.43
zoology 595.77
Mosses botany 588.2
sea algæ **589.3**
[1]Mosûl history 956.7
Motet sacred music 783.4
Moth, gipsy 632.78
Mother
ethics 173.5
Goose folklore 398.3
maternity **618**
tung elem. educ. 372.61
Mothers pensions 362.6
Moths agriculture 632.78
dom. econ. 648.7
econom. zoology 591.68
syst. " 595.78
Motion
beginnings of biology 576.4
composition of physics 531.22
in medicin massage 615.82
laws of astronomy 521.11
metaphysics 116
of earth astronomy **525.3**
liquids hydraulics **532.5**
plants botany **581.5**
sap in plants botany 581.11
solar system 523.24
perpetual mechanics 531.8
pictures, *see* Moving
pure physics 531.1
rectilinear " 531.31
Motiv power, farm **631.371**

Motor
apparatus physiology **612.7**
bicycle 629.2
boats, small 623.823
cars elec. traction 621.3343
converters elec. eng. 621.31357
cultivator agriculture 631.316
electric traction 621.3344
engins, *see* Motors
panels elec. eng. 621.31723
system anatomy **611.7**
physiology **612.7**
surgery 617.47
terminations of nervs 611.018861
vehicles 629.2
Motordynamos elec. eng. 621.31326
Motoroculi
nerv anatomy 611.8313
eye 612.8463
physiology 612.8193
external, *see* Sixth nerv
nucleus anatomy 611.8155
Motors
aerostation engin'g 629.163
aviation " 629.183
direct current elec. eng. **621.31324**
induction " " 621.31364
repulsion " " 621.31366
series " " 621.31365
synchronous " " 621.31344
Motory organs animals 591.47
Mottos college 378.27
[5] **Eng. literature** **828**
Mould fungi 589.2
Moulding, *see* Molding
Moulting embryology 591.34
[1]Moultrie co. Ill. history 977.367
Fort, battle Am. revol. 973.3328
Mound layering 631.5343
Moundbilders prehist. arch 571.91
U. S. history 973.1
Mounds prehistoric arch. **571.9**
Mountain
artillery mil. eng. 623.413
climbing hygiene 613.72
sports 796
cottages architecture 728.7
[1] **counties W. Va. history** **975.48**
engins steam engin'g 621.13267
guns gunnery 623.551
mounts ordnance 623.431
pastures zootechny 636.08423
railways 625.3
regions agriculture 630.0914

Mountain
resorts hygiene 613.12
sheep, English 636.325
German 636.333
Italian 636.35
sickness physiology 612.27511
Mountaineering hygiene 613.72
sports 796
Mountains
attraction of geodesy 526.14
in moon 523.34
mesurement of 551.53
natural boundaries 320.1282
physical geografy 551.43
volcanic 551.21
Mounting specimens 579.5
telescopes 522.25
Mounts ordnance 623.43
Mourning customs 393.9
Mouse traps 648.7
Mouth
anatomy 611.31
diseases 616.31
glands anatomy 611.316
in speech physiol. 612.7891
muscles anatomy 611.7326
physiology 612.31
primitiv embryology 611.01334
surgery 617.52
Movable bookcases 022.433
bridges civil eng. 624.8
mil. " 623.65
Movables chattels 347.3
Movement
and sensibility physiol. 612.8114
cure therapeutics 615.82
inhibition of phys. psy. 612.82134
muscular animal heat 612.532
Movements
associated phys. psych. 612.82135
of brain physiology 612.8242
eye physiology 612.846
intestin " 612.337
large intestin " 612.367
plants botany 581.5
special physiology 612.763
stomach " 612.327
Moving
pictures amusements 791
education 371.33
see also Fotoplays
sidewalks 621.8675
stairs 621.8676
Mowatt, A. C. Am. dram. 812.31
Mowers 631.352
Mowing 631.552
[1]Mozambique history 967.9
[1]Mozul history 956.7
Mucilage manufacture 668.4
Muck fertilizers agric. 631.871
Mucous
membranes, absorp. by 612.387
admin. of med. 615.66
histology 611.01873
physiology 612.38
secretion animals 591.141
tissue histology 611.01825
Mud architecture 693.22
iland Amer. revol. 973.3337
Mudie's circulat'g libraries 027.342
Muffles, elec. prac. chem. 542.47
Muggletonians sects 289.9
Muhammedans 297
Mulberry fruit culture 634.38
silk " 638.2
family fruit " 634.36
Mulching 631.79
Mule domestic animals 636.183
zoology 599.7
Müller, F. P. Dan. poetry 839.8167
Müller's duct anatomy 611.669
Multangulum majus, os 611.71775
minus, os 611.71776
Multifidus muscle anat. 611.73165
Multimember
constituency suffrage 324.222
Multiovulatæ
aquaticæ botany 583.92
terrestres " 583.922
Multiplane
aircraft engin'g 629.173
Multiple
furrow plow 631.3122
integrals calculus 517.34
layering 631.5342
pregnancy obstetrics 618.25
stars astronomy 523.84
unit control elec. tract. 621.3344
Multiplex telegrafs
communication 654.2
electric engineering. 621.38235
Multiplication of plants 631.53
Multispeed motors eng. 621.313246
Mummies 393.3
Mumps diseases 616.31
public helth 614.544
Munch, P. A. Dan. essays 839.8464
Münch-Bellinghausen E.F.J. 832.75

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[1]Muncie, Ind. history 977.265
[1]Munich " 943.36
travels 914.336
Municipal
bonds polit. economy 332.6
civil servis 352.005
corporations admin. 352
law 347.1
elections local gov't 352.004
engineering " " 352.5
government admin. 352
laundries dom. econ. 648.1
law admin. 352
statutes 340
Municipalities admin. 352
Munitions of war mil. eng. 623.4
Munson shorthand 653.62
[1]**Munster, Ireland history 941.9**
travel 914.19
Munster sheep 636.3335
Muntaner, R. Catalan misc. 849.9813
Mural
circles astron. instrum. 522.32
decorations architec. 729
Muratori, L. A. Ital. essays 854.56
[1]Murcia, Spain history 946.7
Murder criminal law 343
Murfreesboro, Tenn.
U. S. civ. war 973.7337
Murmurs
arterial physiology 612.133
cardiac " 612.1715
muscle " 612.7418
Murneer, T: Ger. satire 837.41
Murrain cattle disease 619.2
Murray printing telegraf 621.38255
Musaceous fruits 634.771
[1]Muscatine city, Ia. hist. 977.7681
[1] co. " " 977.768
Musci botany 588.2
Muscle histology 611.0186
reading 134
wave physiology 612.7413
Muscles
anatomy 611.73
chemic composition of 612.744
diseases of 616.74
effect of nervs on 612.817
glycogen of physiology 612.35218
of eye, external anat. 611.8461
larynx " 611.229
physiology 612.7
structure anatomy 611.73
Muscovy duck 636.59783
Muscular
arteries anatomy 611.1342
contraction chem. effects 612.7442
physiology 612.741
disorders eye diseases 617.76
exercise hygiene 613.72
movem't and animal heat 612.532
respiration 612.2271
sense, localization of 612.82558
mental faculties 152.6
physiology 612.885
system anatomy 611.73
physiology 612.7
tissue histology 611.0186
Museum
library bildings 022.655
material lib. adminis. 025.179
Museums
and libraries 021.46
architecture 727.6
arrangement of specimens 579.7
art fine arts 708
state control 351.853
education 370.74
general 060
medical 610.77
of domestic science 640.74
school equipment 371.65
rooms 371.622
scientific natur. science 507
Sunday opening 263.7
[2] other museums see subject
Mushrooms botany 589.22
culture 635.8
food 641.358
Music
art 780
biografy 927.8
box mech. instrum'ts 789.8
copyright 655.62
ecclesiology 246.7–8
Great war 1914-19 940.498
halls architecture 725.81
library administration 025.178
public worship 264.2
room domestic econ. 645.69
library bildings 022.659
therapeutics 615.837
U. S. history civil war 973.798
revolution 973.398
war of 1812 973.5298

Musical
form 781.5
instruments 780
acoustics 534.85
schools 371.632
sensations physiology 612.85874
sounds acoustics 534.3
Musicians biografy 927.8
Musk duck 636.59783
[1]Muskegon city, Mich. hist. 977.457
[1] co. " " 977.457
Musketoons small arms 623.442
Muskets manufacture 683
small arms 623.442
[1]Muskingum co. O. hist. 977.191
Muskmelon 635.611
[1]Muskoka dist. Ont. 971.316
lakes " trav. 917.1316
Muspilli Ger. poetry 831.14
Musquitos, *see* Mosquitoes
Mussels culture 639.4
zoology 594.1
Musset, L. C. A. de Fr. dram. 842.76
poet. 841.77
Mustang pony 636.168
Mustard emetics 615.731
field crops 633.844
garden " 635.44
Mustelidæ zoology 599.7
Muster rolls 355.5
Mutilations
of library books 024.82
war customs 399
Mutiny maritime law 347.7
of Penn. line Am. revol. 973.349
Mutton sheep 636.323
Mutual
action of planets 521.41
aid societies pol. econ. 334.7
benefit soc. state control 351.825
insurance pol. econ. 334.3
system education 371.41
Muzzleloading ordnance 623.4221
small arms 623.4421
Mycenæ ancient history 938.8
Mycetozoa botany 589.29
Mycology botany 589.2
Mydriatics physiology 612.8424
therapeutics 615.784
Myel anatomy 611.82
Myelencefal " 611.818
Myelencephalon " 611.818
Myelin histology 611.018834
Mylohyoid muscles anat. 611.7346
Myocardium " 611.127
Myodynamics physiol. 612.74
Myografy physiology 612.7411
Myology anatomy 611.73
Myopia eye diseases 617.75
physiology 612.8451
Myoporineæ botany 583.871
Myosin nutrition 612.398132
Myotonometry physiology 612.7414
Myrana univ. language 408.9
Myrica 634.663
Myricaceæ botany 583.974
Myriopoda zoology 595.6
Myristiceæ botany 583.927
Myrrh perfume plants 633.816
Myrsineæ " 583.677
Myrtaceæ " 583.42
Myrtaceous fruits 634.42
Myrtales botany 583.4
Myrtle family fruits 634.42
Mysia ancient history 939.21
[1]Mysore, India history 954.8
Mysteries
drama, *see* Mystery plays
occultism 133
Mystery plays Eng. lit. 822.1
history 809.2
religion 244
theater 792
Mystic philosofers 189.5
Mysticism heresies 273.2
philosofy 149.3
Mystics medieval 189.5
Mythical Greek history 938.01
Mythology
comparativ 291
German 293
Greek and Roman 292
Norse 293
Myths 291
Myxedema diseases 616.997
Myxomycetes botany 589.29

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

N rays mesology 612.014483
Nabatheans ancient hist. 939.46
Nævius, Cnæus Lat. dram. 872.2
Naftha chem. tech. 665.5
domestic fuel 644.23
Nafthalene organic chem. 547.28
Nahum Bible 224.94
Naiadaceæ botany 584.74
Nails anatomy 611.786
physiology 612.799
strength of materials 620.11287
[1]Nairn, Scotland history 941.22
Nakedneck fowls 636.5882
Names
misspeld lib. access.dep't 025.232
of days of week 529.2
months 529.2
persons and places 929.4
pen bibliografy 014
[1]Nantes history 944.14
travels 914.414
edict of relig. hist. 272.4
[1]Nantucket co. Mass. " 974.49
travel 917.449
[1]Napa co. Cal. hist. 979.419
Naphtha chem. tech. 665.5
domestic fuel 644.23
Naphthalene organ. chem. 547.28
[1]Napierville co. Que. hist. 971.435
Napkins customs 394.1
dom. econ. 642.7
[1]Naples, Italy history 945.7
[1] city, " " 945.73
travel 914.573
Napoleon
1 Fr. hist. first consul. 944.046
" " " emp. 944.05
3 French history 944.07
code law 349.442
Napoleonic
period Europ. history 940.27
wars Ger. " 943.06
Russ. " 947.07
Scand. " 948.06
[1]Napoli, Italy history 945.73
Narcotic habit 178.8
poisons therapeut. 615.96
Narcotics
action of hygiene 613.8
and stimulants ethics 178
moral use of 178.8
therapeutics 615.78
Nardi, Jacopo Ital. essays 854.32
Narranganset turkey 636.5923
Narrativs, personal
Great war 1914-19 940.48
U.S. history civil war 973.78
Mex. " 973.628
revolution 973.38
Span. war 973.898
war of 1812 973.528
Narrowgage railways 625.1
Nasal
bone anatomy 611.7158
cavity " 611.7147
in speech physiol. 612.7891
duct anatomy 611.8469
passages " 611.21
pharynx anatomy 611.3271
tonsils " 611.326
Nasby, P. V. Am. humor 817.42
Naseberry 634.431
Nashville, Tenn. U.S.civ.war 973.7379
Nasmith societies 267.232
Naso-pharyngeal
space diseases of 616.21
[1]Nassau co. N. Y. hist. 974.7245
poultry 636.538
[1]Natal, Africa history 968.4
Natatores birds 598.4
Natatoriums architecture 725.74
Nates anatomy 611.9812
muscles " 611.7381
Nation political science 320.12
National
aid to education 379.12
and state universities 378
policy 379.16
assembly 1789-92 Fr.hist. 944.041
1871 " " 944.08
ass'n Mex. war veterans 369.146
naval veterans 369.157
bank, U. S. U. S. hist. 973.41
banks 332.11
cemeteries 719
churches vs organ. unity 261.8
conservation pol. econ. 339
cookery 641.59
costumes 391
customs, special 390
decay political science 320.159
det finance 336.3
electric code 621.3281
flowers heraldry 929.6
growth political science 320.159
libraries 027.5
music 786.45
parks 711

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

National
  politics England 329.942
    U. S. **329**
  resources conservation 339
  school supervision 379.151
  soldiers' cemeteries 719
  songs music 784.4
Nationalities
  internal relations 323.1
  special education 371.98
  suffrage 324.15
Nationalization of land 333.1
Nations
  law of internat. law **341**
  leag of " 341.1
  origin of 901
  rise of Europ. history 940.11
Nativ American party 329.5
    elements mineralogy 549.2
Natural
  body doctrinal theol. 233.5
  boundaries pol. sci. **320.1281**
  draft steam engin'g 621.18382
  drainage mining 622.52
  gas chem. technology 662.6
    econom. geology 553.28
    heating 697.6
  history, biblical 220.85
    collectors handbks **579**
    museums 507
    of countries **508.3**
      man **573**
    zoology 590
  law science 501
    sociology 340.1
  light shadows 515.63
  magic **133**
  philosofy **530**
  religion **210**
  resources conservation 339
  rights political science **323.4**
  rock fertilizers agric. 631.851
  science **500**
  selection evolution 575.4
    physiology 612.609
  stone bilding material 691.2
    engin'g " 620.132
  system of botany 580.1
  theology **210**
  ventilation mining 622.42
  water courses, hygiene of 614.772
Naturalists biografy 925.9
Naturalization suffrage 323.62
Nature **500**
  law of science **501**
    sociology 340.1
  metaphysics 113
  of being metaphysics 111
    respiration animals 591.121
    the state pol. sci. **320.15**
  printing 655.37
  study biology 570.7
    elem. educ. 372.35
    general 507
  unity of metaphysics 110
    science 501
Nautical astronomy **527**
    surveying 526.99
Naval
  and military order of
    Spanish-Amer. war 369.183
  architecture engin'g **623.8**
  artillery military " 623.418
  battles 359
    see also special countries
  biografy 923.5
  engineering **623.8**
  gunnery 623.553
  history 359.09
    Great war 1914–19 940.45
    U.S. civil war **973.75**
      Mex. " 973.625
      revolution **973.35**
      Span. war 973.895
      war of 1812 **973.525**
  hygiene 613.68
  men, lives of 923.5
  mounts ordnance 623.434
  order of the U. S. 369.117
    see also special countries
  ordnance 623.416
  registers foren **354**
    U. S. 353.7
  schools 359.07
  science **359**
  shipbilding **623.8**
  stations, U. S. 353.7
  surgery 617.99
  surveying 526.99
  veterans, national ass'n 369.157
  war 359
[1]Navarre history 946.5
    travels 914.65
Navew 635.127
Navicular bones, carpal 611.71771
    tarsal 611.71876
Navies 359

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Navigation
acts Amer. revol. 973.3112
aerial, *see* Aerial navigation
astronomy **527**
laws 347.7
outfit shipbilding 623.86
signals in communicat. 654.9
physics 534.83
useful arts 656
[1]Navigator ilands history 996.1
Navigators' lives 923.9
Navy
administration **359**
cookery 641.573
department, U. S. 353.7
Neal, John Am. fiction 813.26
J. C. satire 817.31
Neap tides earth 525.63
Neapolitan sheep 636.35
swine 636.45
Nearsightedness medicin 617.75
Nearsightedness schools 371.72
Nebraska, U. S.
admission U. S. hist. 973.81
[1] history 978.2
Kansas-, bill U. S. hist. 973.66
mil. hist. U. S. civil war 973.7482
Span. " 973.89482
Nebulæ astronomy 523.85
Nebular hypothesis " 523.12
Necessity metaphysics 123
Neck
anatomy 611.93
lymphatic glands anat. **611.463**
lymphatics of " 611.4213
muscles " **611.733**
surgery 617.53
Necks geology 551.88
Neckties toilet 646.48
Necrology biografy **920**
colleges **378**
Necromancers 133.4
Necroscopy 616.079
Necrosis diseases 616.71
Nectarine 634.26
Needle telegraf commun. 654.3
elec. eng. 621.38224
Needlework art 746
dom. econ. **646.2**
Negligée toilet 646.47
Negro
conditions in U. S. 325.26
education 371.974
Negro
race ethnology 572.96
mentality 136.4
nat. hist. of man 573.5
political standing 324.15
servants dom. econ. 647.24
slavery **326**
songs music 784.7
suffrage pol. sci. 324.15
U. S. hist. 973.81
troops U. S. civ. war 973.7415
Negroes Y. M. C. A. 267.365
Nehemiah Bible 222.8
Neighborhood gilds
social clubs 367
[1]Nejd, Arabia history 953.8
Nelli, Pietro Ital. satire 857.41
Nematoda parasit. dis. 616.965
Nemean games Gk antiq. 913.38
Neocene period geology 551.782
Neodymium chemistry 546.64
Néo-Grec architecture 724.63
Neolithic age prehis. arch. **571.2**
Neology rationalism 211
Neon inorganic chem. 546.292
Neoplasms
pathology **616.992**
physiology 612.6054
Neoplatonism 186.4
Neoplatonists, apolog. ag'st 239.4
Neostyle offis equipment 652
[1]Nepal history 954.2
travel 915.42
Nepal goat 636.39854
Nepenthaceæ botany **583.922**
Nephrotomy surgery 617.46
Nepos, Cornelius Lat. his. 878.3
Nepotism civil servis 351.1
Neptune descrip. astron. 523.48
Nernst lamps elec. light 621.32653
Nerv
cells histology 611.01882
physiology **612.822**
centers
function in speech 612.7893
physiology **612.82**
superior reflexes 612.8338
fatigue physiology 612.8166
fibers " **612.81**
roots, spinal anat. **611.827**
waves rapidity 612.8165
theories 612.8162

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Nervous
conductibility 612.8163
functions of animals 591.18
physiology 612.8
prostration 616.843
system
action
of glands on 612.407
on bloodvessels 612.181
cutaneous exhala. 612.7928
glands 612.408
intestin 612.338
liver 612.358
muscles 612.81
pancreas 612.348
stomach 612.328
and metabolism 612.01538
nitrogen excretion 612.461238
central physiology 612.82
comparativ anatomy 591.48
descriptiv anatomy 591.78
diseases of 616.8
drugs acting on 615.78
human anatomy 611.8
physiology 612.8
hygiene 613.8
pathology 616.8
surgical operations 617.48
sympathet. anatomy 611.839
physiol. 612.89
tissue histology 611.0188
Nervs
anatomy 611.83
diseases of 616.87
histology 611.01883
nutritiv influ. on muscle 612.7465
of skin, trofic physiol. 612.798
peripheral " 612.81
spinal anatomy 611.832
Nestorian church 281.8
Nests
birds zoology 598.2
breeding zootechny 636.082461
care of stock " 636.0831
Netherland cattle 636.2351
[1]**Netherlands history 949.2**
reform'n in 274.92
travels 914.92
Nets biology 579.612
toilet 646.48
zootechny 636.081111
Netting, balloon 629.161
Nettlerash skin diseases 616.51
Neufchatel cheese 637.3534
Neural furrows anat. 611.01351
Neuralgia diseases 616.87
Neurasthenia " 616.843
Neurenteric canal embry. 611.01336
Neurilemma histology 611.018833
Neuritis diseases 616.87
Neuroglia histology 611.01884
Neurology
morfology 591.48
organografy 591.78
physiologic zoology 591.18
Neuroptera insects 595.74
pests 632.74
Neuroses
diseases 616.85
due to special poisons 616.86
Neurotic
poisons toxicology 615.95
Neuters physiologic zool. 591.162
zootechny 636.08233
Neutrality
international law 341.3
proclamation U. S. hist. 973.43
Neutrals Great war 940.335
Nevada, U. S.
acquisition Mex. war 973.621
admission U. S. hist. 973.71
[1] history 979.3
mil. hist. Spanish war 973.89493
U. S. civil war 973.7493
[1] co. Cal. hist. 979.437
New
[1] Albany, Ind. history 977.219
Berne, N. C. U.S.civ.war 973.7362
books, cases for lib. econ. 022.482
[1] Britain, Australa. hist. 993.6
[1] Brunswick, Can. " 971.5
[1] Brunswick, N. J. hist. 974.942
[1] Caledonia, Australa. " 993.2
[1] Castile, Spain " 946.4
travels 914.64
church, Swedenborgian 289.4
biog. 922.84
[1] **England, U. S. history 974**
campain
1779 Amer. revol. 973.3351
war of 1812 973.5233
For military history of New England or its individual states, see subdivisions of Special campains and Military history under 973.3, 973.7 and 973.89
Forest pony 636.1626
[1] **France, Canada history 971**
travels 917.1

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

New
[1] Granada, S. A. history 986
[1] Guinea " 995
[1] **Hampshire, U. S. " 974.2**
For military history see 973.3442, 973.7442 and 973.89442
[1] Haven, city, Conn. hist. 974.68
[1] co. Conn. " 974.67
[1] Hebrides, Australia. " 993.4
[1] **Holland, Australia " 994**
[1] Ireland, Australa. " 993.6
[1] **Jersey, U. S. " 974.9**
For military history, see subdivisions of Special campains and Military history under 973.3, 973.7 and 973.89
Jerusalem church 289.4
Leicester swine 636.4244
[1] London co. Ct. history 974.65
[1] Madrid co. Mo. " 977.8985
Market, Va. U.S.civ.war 973.7369
Mexican goat 636.3981
Mexico, U. S.
discov. of America 973.16
[1] history 978.9
Kearney in Mex. war 973.6231
For military history, see subdivisions of Special campains and Military history under 973.7 and 973.89
Orleans, La.
battle U.S. war 1812 973.5239
capture civ. war 973.7321
exposition 606
[1] history 976.3
nav.hist. U.S.civ.war 973.752
travels 917.63
Platonism 186
Plymouth colony hist. 974.4
[1] **River valley, W. Va. " 975.47**
[1] South Wales " 994.4
[1] Sweden, Penn. " 974.8
Testament Bible 225
Testament biografy 225.92
Greek dialects 487.3
thought 131
year customs 394
[1] **York, U. S. history 974.7**
For military history of state, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
travel 917.47
city Brit. occupa. 973.3323
evacuation 973.339
[1] history 974.71
travels 917.471
[1] **vicinage hist. 974.72**

New
York point system 655.38
soc. of 2d war w.Gt.Br. 369.144
Univ. of the State of 379.747
[1] Zealand history 993.1
hemp 633.572
[1]Newark, N. J. history 974.932
[1] O. " 977.1541
[1]Newaygo co. Mich. " 977.458
Newborn
care of 618.6
nourishment of physiol. 612.3942
physiology 612.648
Newburg
addresses Am. revol. 973.349
Washington's hedquar. 973.367
[1]Newcastle co. Del. hist. 975.11
[1]Newfoundland " 971.8
[1]Newport city, R. I. hist. 974.57
travels 917.457
[1] co. R. I. hist. 974.56
French fleet at Amer. revol. 973.354
Newspaper
cuttings preservation 029.3
directories 016.07
racks lib. econ. 022.935
reporting shorthand 653.044
Newspapers
ethics 179.1
journalism 070
legislativ supplies 328.364
library administration 025.1732
mutilation in libraries 024.84
Newsrooms
free 027.9
library bildings 022.6332
location of branch 022.17
Newt zoology 598.11
[1]Newton co. Ind. history 977.297
[1] Mo. " 977.873
Newton's binomial theorem 512.4
Ngami, lake travel 916.76
Niagara
[1] co. N. Y. history 974.798
[1] Falls, N. Y. " 974.799
Ft, capture war of 1812 973.5234
Nibelungenlied Ger. poet. 831 21
Nicaragua
canal engineering 626.9
sociology 387
[1] history 972.85
travel 917.285
Niccolini, G. Ital. drama 852.71

[1]Nice history 944.94
travel 914.494
Nicene
Ante, church 100–325 281.3
councils religious hist. 270.2
creed 238.1
Post, church 325-1054 281.4
Nicholas 1 Russian hist. 947.07
2 " " 947.08
[1]Nicholas co. W. Va. " 975.469
Nicholls C.. (Bronté) 823.81
Nickel
coinage pol. econ. 332.41
inorganic chemistry 546.74
ores economic geol. 553.48
[1]Nicobar ilands history 992
[1]Nicolet co. Que. " 971.455
Niellowork arch. decora. 729.64
Niembsch v.Strehlenau
Ger. poetry 831.76
[1]Nièvre, France history 944.56
Niger river description 916.6
Night opening lib. econ. 024.34
soil air pollution 614.764
work labor'g classes 331.812
Nigretti sheep 636.365
Nihilism philosofy 149.8
socialism 335
Nile description 916.2
goat agriculture 636.39862
[1]Nîmes history 944.83
travel 914.483
Nineteenth cent'y Eur. hist. 940.28
Ninety-six, Fort, S. C.
Amer. revol. 973.3373
Nineveh anc. history 935.2
[4] **cuneiform lang. 492.19**
Ninth nerv anatomy 611.8319
physiology 612.8199
Niobium inorgan. chem. 546.89
[1]Nipal, India history 954.2
travel 915.42
[1]Nipissing dist. Ont. hist. 971.314
lake " travel 917.1314
Nipple anatomy 611.691
Nirvana oriental philosofy 181.4
Nisard, J. M. N. D. 844.77
Nissl's bodies histology 611.01882
Nitrates chem. tech. 661.6
fertilizers 631.842
mineralogy 549.72
Nitric acid chemic tech. 661.2
Nitrifying
crops agric. 631.8471
Nitrites depressants 615.716
Nitro-derivativ org. chem. 547.8
Nitrogen
assimilation physiol. 612.3922
compounds air pollution 614.727
in blood physiol. 612.125
urea " 612.4612
fertilizers agric. 631.84
group inorganic chem. 546.17
metabolism phys.chem. 612.01533
Nitrogenous
foods domestic econ. 641.12
substances nutrition 612.398
crystallizable
physiol. chem. 612.015347
Nitroglycerin chem. tech. 662.2
Nitrous oxid anesthetics 615.781
[1]Nivernais, France history 944.56
draft horse 636.1545
Nobel prizes 378.32
Nobility heraldry 929.7
social classes 323.31
ethics 177.5
[1]Noble co. Ind. history 977.276
[1] O. " 977.195
Noble Leyczon, La
Provençal poetry 849.132
Nobles biografy 923.2
education 371.962
Nocturne piano music 786.43
[1]Nodaway co. Mo. history 977.812
Nodier, J. C. E. Fr. fiction 843.72
Nodose ganglion anat. 611.89191
Noise public helth 614.8
Nomads outcast races 397
Nomenclature
anatomy 611.0114
botany 580.1
physiology 612.0114
theoretic chemistry 541.9
Nominalism philosofy 149.1
Nominations suffrage 324.231
Nomsz, Jan Dutch drama 839.3245
Nonalkaloid anesthetics
physiol. psychology 612.82142
Nonautomatic actions
of animals comp. phys. 612.821311
Nonchristian
biografy 922.9
religions 290
and education 377.9
Noncombatants Great war 940.3161
Noncondensing engins 621.11253

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Nonconformists
English religious hist. 274.2
sects 283.42
Nondepolarized cells 621.3535
Nondirigible
aircraft aeronautics 629.151
Noneuclidean geometry 513.8
Nonjurors Eng. relig. hist. 274.2
Nonmalignant tumors 616.993
Nonmetallic
elements chemistry 546.1
poisons therapeutics 615.923
Nonnitrogenous substances
foods dom. econ. 641.13
metabolism nutrition 612.398197
physiol. chem. 612.015346
urin constituents 612.4618
Nonofficinal drugs adulter. 614.352
Nonrigid dirigibles 629.157
Nonsphericity of planets 521.43
Nonwoody fruit 634.77
[1]Nord, France history 944.28
Nordenflycht, H. C. 839.7143
[1]Norfolk co. Eng. hist. 942.61
[1] Mass. " 974.47
[1] Ont. " 971.336
Norfolk cattle 636.2265
sheep 636.3235
turkey 636.5927
Noricum ancient " 939.85
Norite Plutonic rocks 552.37
Normal labor obstetrics 618.44
schools 370.73
training agric. 630.775
Norman
architecture, English 723.42
French 723.44
Sicilian 723.45
cattle 636.2461
conquest Eng. hist. 942.021
conquests Europ. hist. 940.14
draft horse 636.1541
swine 636.443
[1]Normandy, Fr. history 944.2
Norse " 948.02
Normans, England " 942.02
[1]Norrland, Sweden " 948.8
Norse
discovery of America 973.13
[4] **language 439.8**
[5] **literature 839.8**
mythology 293
[4] **old, language 439.6**
[5] literature 839.6

Norsemen Scandin. hist. 948
North
[1] **Africa history 961**
America geografy 917
geology 557
[1] **history 970**
languages 497
statistics 317
travels 917
American turkey 636.5921
[1] **Atlantic states U. S. hist. 974**
[1] **Canada " 971.2**
[1] Carolina, U. S. " 975.6
travel 917.56
secession U.S.hist. 973.713
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
[1] **Central states history 977**
Dakota, U. S.
admission U. S. hist. 973.86
[1] history 978.4
mil. hist. Spanish war 973.89484
U. S. civ. war 973.7484
travels 917.84
Devon cattle 636.2261
east, *see* Northeast
German confederation 943.081
Holland cattle 636.2351
swine 636.433
in U. S. civil war 973.741
For military history of the North or its individual states, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
pole travels 919.8
sea physical geog. 551.461
west, *see* Northwest
[1]Northampton co. Eng. hist. 942.55
[1] Pa. " 974.822
Northeast German sheep 636.3317
[1] ter. Can. hist. 971.28
Northeastern
boundary U. S. hist. 973.57
treaty " " 973.58
passage 919.8
Northern
dewberry 634.7171
invasion Am. revol. 973.3366
lights aurora borealis 523.59
mythology 293
Panhandle, W. Va. hist. 975.411
travel 917.5411

Northern
papaw 634.418
prisons U. S. civ. war 973.772
Northmen in Am. U.S.hist. 973.13
Scand. history 948
Northumberland co.
[1] Eng. history 942.82
[1] N. B. " 971.521
[1] Ont. " 971.356
[1] Pa. " 974.831
Northwest
boundary, Ore. U.S.hist. 973.611
San Juan " 973.82
department of
1862 U. S. civ. war 973.7329
1863 " " " 973.7341
events in
1778–79 Amer. revol. 973.3348
1779 " " 973.3358
passage travels 919.8
rebellion Can. hist. 971.054
[1] **Territories** " " **971.2**
[1] **territory U. S.** " **977**
travels 917.7
Norway
administration 354.481
botany 581.9481
finance 336.481
geology 554.81
[1] **history 948.1**
maps 912.481
schools, public 379.481
statistics 314.81
travel 914.81
treaties 341.2481
union with Sweden hist. 948.06
other topics see table 1
Norwegian
haybox cookery 641.588
kitchen 643.338
[4] **language 439.8**
[5] **literature 839.8**
Romanesque architecure 723.48
Nose
anatomy 611.21
diseases pathology 616.21
in speech physiology 612.7891
muscles anatomy 611.7323
physiology 612.2154
Nosology medicin 616.01
Nostrums state control 614.27
Nota, Alberto Ital. dram. 852.65
Notaries public law 347.96
Notation
abridged anal. geom. 516.52
arithmetic 511.2
for book sizes 025.3
music 781.2
system of lib. classificat. 025.4
theoretic chemistry 541.9
Notebooks liter. methods 029.4
Notes
personal shorthand 653.041
promissory pol. econ. 332.7
public and priv. " 332.5
Notion mental faculties 153.1
Notochord embryology 611.01341
[1]Nottingham, Eng. history 942.52
travels 914.252
[1]Notts, England history 942.52
[3]Nouns Eng. syntax 425.5
forms etymol. 422.5
" morfol. 425.15
[1]Nouvelle France history 971
[1]Nova Scotia " 971.6
Novaculite lithology 552.45
Novel reading ethics 175.8
lib. econ. 028.4
writing 808.3
Novelists, English biog. 928.23
Novels
American civil war 973.793
[5] **English literature 823**
Great war 1914-19 940.493
readers privileges 024.78
religious 244
[1]Novgorod, Russia hist. 947.2
Novilatlin univ. lang. 408.9
Noxious
animals econ. zoology 591.65
gases air pollution 614.72
materials " " 614.75
plants econ. botany 581.65
vapors hygiene 613.62
Noxiousness
of animals, econ. zoology 591.65
Nozles steam turbin design621.16533
theory621.16513
[1]Nubia, Egypt history 962.4
Nubian milk goat 636.3986
sheep 636.386
Nuciculture agric. 634.5
Nuck, canal of anatomy 611.6673
Nuclei, dentate " 611.81713
olivaris super. " 611.81713
Nucleoalbumins nutrit. 612.398136

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Nucleoproteids nutrit. 612.3981451
Nucleus
caudatus anatomy 611.81321
motorius " 611.81741
of cell histology 611.01813
physiology 612.01422
Luys anatomy 611.8141
red " 611.81544
taild " 611.81321
Nude fowls 636.5882
Nudifloreae botany 584.6
[1]Nuevo Leon, Mex. hist. 972.1
Nuisances law 347.5
public helth 614.7
Nullification
in South Carolina 973.561
U. S. constitut. law 342.73
Number
accession lib. econ. 025.243
metaphysics 119
of library trustees 023.32
members legis. bodies 328.3349
[3] **signs of Eng. etymol. 422.5**
Numbering
machines library 025.244
offis 652
printing 655.36
of pages bookmaking 655.27
Numbers
book of Bible 222.14
prime arithmetic 511.3
shelf library econ. 025.8
theory of algebra 512.81
Numeration arithmetic 511.2
Numeric equations, higher 512.2
Numidia ancient history 939.72
Numismatics 737
Nunneries 271.9
Nuns 271.9
cloisterd 271.96
[1]Nuremberg history 943.32
travels 914.332
Nurseries
day 362.7
Nursery
catalogs agriculture 631.5214
domestic economy 649.1
food dom. econ. 649.3
hygiene 613.22
furniture dom. economy 645.67
lore folklore 398.3
rimes folklore 398.3
Nurses
American revolution 973.376
domestic servis 647.25
Great war 1914-19 940.475
physiologic zoology 591.163
training of 610.73
U. S. civil war 973.776
Nursing domestic econ. 649
medicin 610.73
Nusairian religion 297
Nut culture 634.5
gatherers 631.3561
Nutation astron. correc. 522.96
theoret. astron. 521.9
Nutmeg culture 633.834
muskmelon 635.611
Nutrient arteries anat. 611.1342
Nutriments physiology 612.392
Nutrition
action of glands on 612.403
on glands 612.404
of bones physiology 612.752
muscles " 612.7465
plants fertilizers 631.811
physiologic botany 581.13
zoology 591.13
physiology 612.39
Nutritiv
baths hygiene 613.23
enemeta " 613.23
phenomena physiol. 612.39
Nutritory
organs comp. anat. 591.43
descrip. " 591.73
Nuts agriculture 634.5
dietetics 613.27
domestic econ. 641.3
harvesting 631.5561
physiology 612.39272
Nux vomica spin. poisons 615.97
Nyblom, K: R. Swed. lit. 839.7466
Nyctagineæ botany 583.911
Nyerup, R. Danish essays 839.845
Nymphæaceæ botany 583.118

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Oak botany 583.976
forestry 634.9
[1]Oakland city, Cal. hist. 979.466
[1] co. Mich. " 977.438
Oases physical geografy 551.58
Oat grass forage crops 633.265
Oaths
ethics 179.5
legal 347.94
of allegiance pol. sci. 323.62
offis legislativ bodies 328.361
Oats agriculture 633.13
botany 584.9
zootechny 636.08613
[1]Oaxaca, Mexico history 972.7
Obadiah Bible 224.91
Obedience doctr. theology 234.6
family ethics 173.6
Obelisks antiquities 913.32
monuments 718
Oberammergau pass'n play 792
Obesity diseases 616.39
physiology 612.3977
Obex anatomy 611.8185
Obituary addresses biog. 920
serm. 252.9
Object glass telescopes 522.24
teaching education 372.3
Objectivs microscopy 578.2
Oblates monast. orders 271.76
Obligations soc. ethics 177.8
Oblique
arches arch. construc. 721.42
muscles, abdom. anat. 611.7363
of hed " 611.7318
perspectiv descr. geom. 515.61
projection " " 515.3
Obliquity of ecliptic 525.32
Oboe musical instrum. 788.7
Obrenovics swine 636.472
[1]O'Brien co. Ia. history 977.714
Observation
errors probabilities 519.6
mental faculties 152
Observations astronomy 524
auxiliary 522.6
of comets 523.69
moon 523.39
planets 523.49
stars 523.89
sun 523.79
Observatories
astronomy 522.1
meteorologic 551.5
school apparatus 371.662
bildings 371.623
Observing
chairs astronomy 522.28
powers education 372.3
Obsession demoniac 133.4
spiritism 133.9
Obsidian lithology 552.23
Obstetric operations 618.8
Obstetrics gynecology 618.2
Obturator
artery anatomy 611.1375
externus " 611.73826
internus " 611.73817
Occipital
artery anatomy 611.13326
bone " 611.7151
glands of neck " 611.4631
lobe of brain " 611.81315
Occipito-
atlantal joints anatomy 611.7211
axial " " 611.7211
frontalis muscle " 611.7322
Occult sciences 133
Occultations
and transits, astronomy 523.99
finding longitude 525.48
Occultism 133
Occupation
choice of 374.1
territorial pol. sci. 320.1263
therapeutics 615.851
Occupations
injurious hygiene 613.6
mortality in pub. helth 614.146
special diseases from 616
Ocean
coast changes 551.36
[1] co. N. J. history 974.948
currents phys. geog. 551.47
exploration 910.4
geografy maps 912
life zoology 591.92
liners shipbilding 623.824
mails 383
Pond, Fla. U. S. civ. war 973.7364
telegraf communication 654.5
elec. engin'g 621.3828
tides 525.6
transportation sociol. 387
useful arts 656

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Ocean travels 910.4
[1]Oceana co. Mich. history 977.459
Oceania
ecclesiastic history 279
geografy 919
geology 559
[1] **history 990**
statistics 319
swine 636.489
travels 919
Oceanica, *see* Oceania
Oceanology phys. geog. 551.46
Oceans physical geografy 551.46
Ochnaceæ botany 583.245
[1]Oconto co. Wis. history 977.537
Octateuch Bible 222
Octocorolla radiates 593.62
Octroi local taxes 336.28
Oculomoto nerv, *see* Third nerv
external, *see* Sixth nerv
Od mind and body 134
Odd Fellows secret soc. 366.3
Odel, Anders Swed. poetry 839.7144
Odell shorthand 653.35
[1]Odessa history 947.7
Odic force mind and body 134
Odontalgia dentistry 617.65
Odontografs mech. engin'g 621.831
Odontology
animal compar. anat. 591.43
descrip. " 591.73
human " 611.314
Odontornithes fossils 568
Odylic force 134
Œcumenical councils
ecclesiastic polity 262.5
religious history 270.2
Oedema physiology 612.381
Oehlenschläger, A. G. 839.8161
Oenotheras botany 583.445
Oesophagus, *see* Esophagus
Offal air pollution 614.763
Offensiv
animals econ. zoology 591.66
materials air pollution 614.75
Offertory alms 264.9
organ music 786.86
sacred " 783.23
Office, *see* Offis
Official
ballot suffrage 324.252
functions civ. ser. offisers 351.1
register, U. S. civ. serv. 351.2
Official
reporting shorthand 653.046
residences architect. 725.17
Officinal drugs adulterat. 614.351
Offis
and apartm't bldgs arch. 725.22
bildings " 725.23
bildings care of 647.962
equipment and methods 651
furnishings dom. econ. 645.64
groups blanket ballot 324.256
tenure of civil servis 351.4
training law educat. 340.7
Offisers
administrativ univ. 378.11
army and navy lives 923.5
mil. sci. 355.33
civil servis lives 923.5
organization 351.1
duties of public ethics 172.2
gov't, legis. power over 328.345
of legislativ bodies 328.362
presiding legis. bodies 328.3621
Offises
excise architecture 725.14
post " 725.16
public " 725.13
record " 725.15
Offisholding
legislativ restrictions 328.349
Offsets plant culture 631.5321
Offspring hygiene 613.9
Ofthalmia eye diseases 617.71
Ofthalmic
artery anatomy 611.13332
nerv of Willis " 611.83152
surgery 617.7
vein, inferior anat. 611.14516
superior " 611.14515
Ofthalmology
anatomy 611.84
diseases 617.7
physiology 612.84
Ofthalmometer physiol. 612.84261
Ofthalmoscope pathol. 617.7
physiol. 612.84312
[1]Ogemaw co. Mich. history 977.475
Ogier, G. Dutch drama 839.3235
[1]Ogle co. Ill. history 977.332
Ogres folklore 398.4
Ohio
[1] co. Ind. history 977.212
[1] W. Va. " 975.414

Ohio
state
admission U.S.hist. 973.46
1 **history** **977.1**
For military history, see 973.52471, 973.7471 and 973.89471
travel **917.71**
valley description 917.7
1 **W. Va. history** **975.41**
Ohmmeters elec. eng. 621.3742
Oil
animal chem. analysis 543.9
technol. 665.2
baths prac. chem. 542.46
burning locomotivs 621.1331
coal economic geology 553.28
cooking by dom. econ. 641.583
cookstoves " " 643.333
domestic fuel " " 644.23
engins mech. engin'g **621.4342**
feeders lubrication 621.89
heaters dom. econ. 644.23
lamps " " **644.32**
light " " 644.312
light lib. bildings 022.751
painting art 751
bilding **698.1**
plants agriculture 633.85
refining, mineral air pol. 614.724
strainers lubrication 621.89
surface road engin'g 625.75
switches elec. eng. 621.31735
tractors agriculture 631.3722
Oilcloth manufactures 679
Oilers shipbilding 623.826
Oils
adulterations 614.313
essential chem. tech. 668.5
fixt materia medica 615.34
food constituents 641.14
manufacture **665**
protectiv external agents 615.776
vegetable agriculture 633.85
chem. anal. 543.8
tech. 665.3
Ointments therapeutics 615.776
1Oise, France history 944.35
Oklahoma, U. S.
1 history 976.6
opening U. S. hist. 973.86
travels 917.66
Okra 635.648
Olacales botany **583.26**
Olacineæ botany 583.261
Olai, Ericus Swed. poetry 839.7113
Old
age insurance pol. econ. 331.25
mortality pub. helth 614.135
pensions pol. econ. 331.25
physiology 612.67
therapeutics of 615.54
4 **Bactrian language** **491.52**
1 Castile Spanish history 946.3
travels 914.63
catholic church 284.8
4 **Egyptian language** **493.1**
3 English language 427.01
French " 447.01
gard, order 369.116
Norfolk sheep 636.3235
4 **Norse language** **439.6**
literature 839.6
4 **Persian language** **891.51**
4 **Prussian** " **491.91**
red sandstone geology 551.74
4 **Saxon language** **439.2**
literature 839.2
school baptists 286.4
Testament **221**
biografy 221.92
1Oldenburg, Ger. history 943.52
cattle 636.2344
horse 636.143
swine 636.434
Oldham, John Eng. satire 827.45
Oleaceæ botany 583.71
Olefins organic chem. 547.22
Olempe sheep 636.3468
Oleomargarin
adulterations 614.326
chemic technology 664.3
dairy 637.281
Oleron, laws of admiralty 347.7
Olfaction physiology 612.86
psychology 152.3
Olfactory
bulb anatomy 611.8133
nerv " 611.8311
physiology 612.8191
organs anatomy 611.86
physiology **612.86**
tract anatomy 611.8133
Oligarchy polit. science 321.5
Oligocene period geology 551.781
Olivary
bodies anatomy 611.8183
body, nucleus of superior 611.81777

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Oliv oil chemic technol. 665.3
Olivs agriculture 634.63
Olona fiber crops 633.565
[1]Olonetz Russian history 947.2
Olozaga, Salustiano de
Span. oratory 865.51
Oltmans, J. F. Dutch fic. 839.3353
Olufsen, O. K. Dan. dram. 839.8257
Olustee, Fla. U.S.civ.war 973.7364
Olympiads chronology 529.3
Olympic games Gk antiq. 913.38
[1]Oman, Arabia history 953.5
travel 915.35
Omayyads Span. hist. 946.02
Omens occultism 133.3
Omentum anatomy 611.382
diseases of 616.38
physiology 612.339
Ommiads Span. hist. 946.02
Omnibus
bill U. S. history 973.63
riders special legislation 328.376
Omnigraf engraving 760
Omnipotence doct. theol. 231.4
Omnipresence " " 231.4
Omniscience " " 231.4
Omohyoid muscle anat. 611.7333
Omphalomesenteric
artery anatomy 611.1364
vein " 611.1497
Onagrarieæ botany 583.445
Oneida
community socialism 335.973
[1] co. N. Y. history 974.762
[1] Wis. history 977.525
indians 970.3
Oneman farm 631.1163
Oneway plow 631.3124
Ongtischaf 636.385
Onions agriculture 635.25
[1]Onondaga co. N. Y. hist. 974.765
indians 970.3
[1]Ontario, Canada history 971.3
[1] co. N. Y. " 974.786
[1] Ont. " 971.355
Ontogeny anatomy 611.013
zoology 591.3
Ontology philosofy 111
[1]Ontonagon co. Mich. hist. 977.498
Onychophora articulates 595.5
Oolite geology 551.76
lithology 552.56
Oology ornithology 598.2
Oordoo language 491.43
Oosporeæ algæ 589.5
fungi 589.24
Ooze lithology 552.54
Opal economic geology 553.8
Open
air schools 371.718
arc elec. lighting 621.32542
channels hydraulics 532.54
circuit cells elec. eng. 621.3535
reference shelvs lib. econ. 024.55
shelvs lib. econ. 024.56
voting suffrage 324.244
workings mining 622.31
Opening, Sunday
libraries 024.4
and museums 263.7
Openings
in roofs arch. construc. 721.55
streets sewerage 628.231
Opequon, Va. battle
U. S. civil war 973.7377
Opera
amusement 792
bouffe dramatic music 782.7
dramatic music 782
ethics 175.2
houses architecture 725.82
recitative vocal music 784.2
Operations, calculus of 517.7
Operativ surgery 617.9
Operculum anatomy 611.81319
Operetta music 782.8
Ophicleide " 788.45
Ophidia reptils 598.12
Ophiomorpha fishes 597.7
Ophiuridea zoology 593.94
Ophthalmia eye diseases 617.71
Ophthalmic, *see* Ofthalmic
Ophthalmology, *see* Ofthalmology
Ophthalmometer physiol. 612.84261
Ophthalmoscope pathol. 617.7
physiol. 612.84312
Opitz v. Boberfeld Ger.poet. 831.51
Opium
agriculture 633.75
analgesics 615.783
habit ethics 178.8
hygiene 613.82
narcotic poisons 615.961
traffic ethics 178.8
war, 1840–42 Chinese hist. 951
Opossums mammals 599.2

Opotherapy
therapeutics 615.36
hepatic physiology 612.35161
Oppian Greek poetry 883.4
Opposition
of good and evil heresy 273.2
Oppositions solar system 523.23
Opsonic theory
physiology 612.118223
Optic
chiasm anatomy 611.8144
crystallografy 548.9
disc anatomy 611.843
illusions physiology 612.84374
lobes " 612.8265
nerv anatomy 611.8312
eye diseases 617.73
physiol. of eye 612.843
nervs " " nervs 612.8192
perceptions physiol. 612.84372
thalamus anatomy 611.8147
physiology 612.8261
tract anatomy 611.8144
Optics physics 535
physiology 612.84
Optimism philosofy 149.5
Optional
studies curriculum 375.0014
vaccination pub. helth 614.4739
Optostriate body physiol. 612.8261
Orach 635.43
Oracles mind and body 133.3
Oral
examinations educat'n 371.27
instruction " 371.33
pharynx anatomy 611.3272
Orange
associations polit. soc. 363
[1] city, N. J. history 974.933
[1] co. Cal. " 979.496
[1] Ind. " 977.227
[1] N. Y. " 974.731
[1] Vt. " 974.36
family agriculture 634.3
[1] Free State history 968.5
Orangemen polit. ass'ns 363
Oranges fruit culture 634.31
[5]Orations Eng. literature 825.3
Oratoric clubs educ. 374.24
Oratorios sacred music 783.3
Orators, English biografy 928.25
Oratory 808.5
sacred homiletics 251
Orbicular muscles of eye 611.7325
Orbicularis oris 611.7326
Orbit
of comets astronomy 523.63
earth " 525.3
eye, etc. diseases 617.78
moon astronomy 523.33
Orbits
of eyes anatomy 611.7146
hevenly bodies 521.3
plane of, in space astron. 521.21
position of, in plane " 521.22
[1]Orcades, Scot. history 941.12
Orchard disk harrow 631.3138
grass forage crops 633.22
Orcharding agriculture 634
Orchards agriculture 634
Orchestral music 785
sacred music 783.1
Orchestrion music 789.7
Orchids
botany 584.15
fertilization of, botany 581.16
gardening 716.2
Orchitic fluid physiol. 612.616
Ordeal, trial by law 340.3
Order
department lib. econ. 025.23
of founders and patriots
of America 369.125
studies curriculum 375.0011
the Old gard 369.116
public administration 351.75
Orders
holy ministry 262.16
sacraments 265.4
in council, 1807-8 Eng. hist. 942.073
the ministry eccles. pol. 262.16
monastic 271
of architecture 729.32
knighthood heraldry 929.71
social pol. sci. 323.3
Ordinal Anglican ritual 264.037
Ordinance of 1787 973.318
Ordinances Anglican rit. 264.035
city local gov't 352
local lib. " 023.1
religious 265
Ordination eccles. polity 262.16
sacraments 265.4
sermons 252.7
Ordnance mil. engin'g 623.4
stores, care of 623.48
Ordo anomalus botany 583.899
Ordoo language 491.43

Ore
cars mining engin'g 622.63
concentrators min. eng. 622.75
deposits econ. geol. 553.1
dressing mining eng. 622.7
sampling assaying 669.9
Oregon, U. S.
admission U. S. history 973.68
boundary " " 973.611
[1] history 979.5
mil. hist. U. S. civil war 973.7495
Span. war 973.89495
question U. S. hist. 973.5
travel 917.95
[1]Oregon co. Mo. history 977.8875
Ores
chemic analysis 543.6
iron econom. geology 553.3
metallurgy 669
mineralogy 549
mining 622
non-iron econ. geol. 553.4
Orford, H. Walpole Eng.let. 826.61
Organ
bilding 786.6
cabinet 786.9
music 786.8
musical instrument 786.5
of Corti anatomy 611.8522
physiology 612.8584
sacred music 783.1
Organa lateralia anat. 611.889
Organic
and inorganic matter 577.1
chemic industries 660
chemistry 547
chemistry of soil 631.417
drugs materia medica 615.3
liquids physical chem. 541.327
material zoology 591.137
products chem. analysis 543.8
remains paleontology 560
Organisms, physiology of 612.014
Organization
central gov. foren states 354
U. S. 353
city local gov't 352.004
civil servis 351.1
cooperation 334.1
courts law 347.97
engineering works 621.704
internal legis. bodies 328.36
laboring classes 331.87
military forces 355.3
Organization
party suffrage 324.233
schools education 371.2
Organizations
labor pol. econ. 331.88
library propaganda 021.77
[2] special purposes, see subject
Organografy botany 581.7
zoology 591.7
Organs
embryonic, human 611.013
of generation anatomy 611.6
comp. anat. 591.46
descr. " 591.76
overuse of hygiene 613.65
Oriels architectural design 729.38
Oriental
architecture 722
art 709.5
churches 281.5
customs 915
frils pigeons 636.59634
history 950
horses 636.11
languages 490
literature 890
music theory 781.7
mythology 291
philosofers biografy 921.9
philosofy 181
question Turkey 949.6
raspberries 634.715
religions 290
societies 490.6
theologians biografy 922.1
Orientalia literature 890
Orientals dom. servis 647.24
education 371.976
Orientation
ecclesiology 246.1
sense of physiology 612.8861
Orifises hydraulics 532.52
Origen early Chris. philos. 189.2
Origin of
English language 422.1
evil natural theology 216
individ. soul metaphys. 129
knowledge " 121
language 401
life 576
man nat. hist. of man 573.2
printing 655.11
religious belief 201
sexes evolution 575.9

Origin of
species " 575.8
speech philology 401
state political science 320.11
Original
home of man ethnology 572.4
sin doctrinal theology 233.2
Orinoco river travel 918.7
Oriskany Amer. revolution 973.3334
[1]Orissa, India history 954.1
[4] language 491.45
Orkney sheep 636.3258
[1]Orkneys, Scotland history 941.12
Orléans, C: duc d' Fr. poet. 841.22
[1]Orléans France history 944.5
house of Fr. " 944.063
[1] Ile d', Que. " 971.448
[1]Orleans co. N. Y. " 974.791
[1] Vt. " 974.32
Ormin Eng. poetry 821.12
Ornament
carvd arch. decorat'n 729.5
painted " " 729.4
Ornamental
botany 716
design 745
gardening, landscape 710
joinery carpentry 694.7
plasterwork masonry 693.63
Ornaments
costume 391.7
domestic economy 645.5
prehistoric 571.7
toilet 646.48
[1]Orne, France history 944.23
Ornithology 598.2
Ornithopters aeronautics 629.177
Orobanchaceæ botany 583.821
Orology physical geog. 551.43
Orphan asylums
architecture 725.57
institutions 362.7
U. S. civ. war 973.7772
Orphic poems Gk epics 883.5
Orpington poultry 636.524
Orrery astronomy 523.28
Orris perfume plants 633.815
Orthodox church Greek 281.9
Orthodoxy heresies 273
Orthoepy
compar. philol. 411
[3] English language 421.5
Orthografic projections 515.51
[3]Orthografy Eng. lang. 421
Orthomorphic projec. geod. 526.82
Orthopedic
appliances surgery 617.92
surgery 617.3
Orthoptera agriculture 632.72
zoology 595.72
Orthopters aeronautics 629.177
Oryctology paleontology 560
Oryzeae forage crops 633.284
Os, dilatation obstetrics 618.84
[1]Osage co. Mo. history 977.858
[1]Osceola co. Ia. history 977.7116
[1] Mich. " 977.469
Oscillating
marine engins 621.1225
steam " 621.11245
Oscillations of earth's crust 551.24
Oscillografs elec. eng. 621.3747
[1]Oscoda co. Mich. history 977.478
Osculation calculus 517.24
[1]Oshkosh, Wis. history 977.565
Osier fiber crops 633.588
Osmium
filaments elec. lighting 621.32644
inorganic chemistry 546.94
Osmose of liquids 532.7
Osmosis
absorption physiology 612.382
mesology 612.0144621
theoretic chemistry 541.341
Osmotic
permeability of blood 612.11117
pressure of blood 612.11811
Osseous labyrinth anat. 611.853
[4]Ossetic language 491.56
Ossian Eng. literature 821.66
Ossoli, M. (Fuller) d' 814.31
Ostend manifesto U.S.hist. 973.66
Osteology
animal descriptiv 591.79
comparativ 591.49
human anatomy 611.71
Osteopathy therapeutics 615.82
Ostracism Gk antiqui. 913.38
Ostracoda articulates 595.33
Ostrich
farms agriculture 636.611
zoology 598.5
[1]Oswego co. N. Y. history 974.767
[1]Otaheite history 996.2
travel 919.62
apple, sweet 634.442
gooseberry 634.666
Otfried German poetry 831.12

Otic ganglion anat. 611.89156
Otocysts physiology 612.85876
Otoliths, *see* Earstones
Otology
anatomy of ear 611.85
diseases " 617.8
physiology " 612.85
[1]Otsego co. Mich. hist. 977.484
[1] N. Y. " 974.774
[1]Ottawa city, Ont. " 971.384
[1] co. Mich. " 977.415
[1] O. " 977.121
[1] Que. " 971.422
Otto 1 German history 943.022
2 " " 943.022
3 " " 943.022
4 " " 943.025
Otto cycle gas engins 621.4321
[1]Ottoman empire history 949.6
[1]Ottumwa, Ia. " 977.7931
Otway, T: Eng. drama 822.45
Oudaan, Joachim Dut. " 839.3236
[1]Oudh, India history 954.2
[1]Ourtagamie co. Wis. " 977.539
Outbildings architecture 728.9
Outcast races 397
Outcrop geology 551.85
Outdoor
cookery 641.578
garments dom. econ. 646.45
relief charity 361
pauperism 339
servis dom. econ. 647.3
sports 796
Outer house garments 646.43
Outfall sewerage system 628.217
sewers 628.27
Outfit, ship 623.86
Outlawry criminal law 343
[2]Outlines, compends, see subj.
Outlining drawing 741
Outlooks landsc. garden'g 717
Outposts military science 355.41
Outward flow turbins 621.243
Outworks fortifications 623.117
Ouvroirs
wages economics 331.53
Ovarian
artery anat. 611.1369
castration, physiol. effects 612.6211
veins anatomy 611.1467
Ovaries anatomy 611.65
gynecology 618.11
physiology 612.621
Ovariotomy surgery 617.46
Overcoats dom. econ. 646.45
Overcrowding curriculum 375.006
Overfalls hydraulics 532.53
Overflows sewer appurten. 628.258
Overhanding dom. econ. 646.21
Overhed
lines elec. transmission 621.31922
wire " traction 621.3322
Overhours hygiene 613.61
Overlegislation pol. sci. 328.241
Overmantels fixt furniture 729.95
Overshot wheels mech. eng. 621.22
Overskou, T: Danish dram. 839.8264
Overstrain
effect on library servis 023.644
staff 023.643
physical hygiene 613.73
Overstudy school hygiene 371.71
Overtime work lib. econ. 023.64
polit. econ. 331.814
Overture orchestral music 785.5
Overuse of organs hygiene 613.65
Overwork
hygiene 613.61
mental mental hygiene 131
Ovid Latin poetry 871.2
Ovogenesis embryology 611.01316
Ovulation physiology 612.62
Ovum
embryology 611.01315
capsule of anatomy 611.6512
pathology of pregnancy 618.32
physiology 612.622
removal obstetric oper. 618.88
[1]Owen co. Ind. history 977.243
[1] sound, Ont. " 971.318
Owls pigeons 636.59622
Owners
absentee and alien 333.4
liability of bilding 692.9
Ownership
land pol. econ. 333
marks lib. " 025.25
zootechny 636.0812
municipal 352.5
Oxalate of cerium therap. 615.735
Oxalates mineralogy 549.79
Oxenstjerna, J.G. Swed. lit. 839.7154
[1]Oxford, England history 942.57
travels 914.257
[1] co. Me. history 974.17
travels 917.417
[1] Ont. history 971.346

Oxford movement 283
sheep 636.3234
university 378.42
Oxids mineralogy 549.5
theoretic chem. 541.4
Oxydants physiol. chem. 612.01511
Oxygen
chemistry 546.21
compounds mineralogy 549.5
group inorganic chem. 546.2
in blood physiol. 612.1272
mesology 612.014464
muscular consump. of 612.74422
Oxyhemoglobin physiol. 612.11111
Oxyntic glands, stomach 611.33
Oxytocics therapeutics 615.766
Oyster plant 635.1634
Oysters
cookery dom. econ. 641.6
fisheries 639.4
food dom. econ. 641.3
fossils 564.1
fresh pub. helth 614.317
preservation chem. tech. 664.9
dom. econ. 641.4
preservd pub. helth 614.319
zoology 594.1
[1]Ozark co. Mo. history 977.8835
[1]Ozaukee co. Wis. history 977.592
Ozocerite economic geol. 553.27
Ozone chemistry 546.21
hygiene 613.16
Pacchioni's glands anat. 611.8193
Pacer, American 636.128
Pachyderms zoology 599.6
Pacific
coast U. S. civ. war 973.7389
dewberry 634.7173
[1] **ilands, Polynesia hist. 996**
travel 919.6
ocean, discov. U.S.hist. 973.16
phys. geografy 551.465
[1] **slope, U. S. history 979**
[1] **states " " 979**
war of Chile history 983
Pack horse 636.15
mules 636.183
Packers agriculture 631.3644
library employees 023.795
Pacifists Great war 940.3162
Packing
appliances for agric. 631.364
butter business 637.2351
cheese " 637.3351
farm expenses 631.177
of crops 631.564
voltaic cells 621.3524
Packs farm transport 631.3732
Paddlewheels shipbilding 623.87
Paddock lectures apologet. 239.05
Padins fruit culture 634.24
Padouse fowls 636.552
[1]Padua, Italy history 945.3
travel 914.53
Paduan fowls 636.552
sheep 636.35
Pædiatrics medicin 618.9
Pædogenesis zoology 591.163
Pagan architecture 722
Paganism 290
[1]Page co. Ia. history 977.778
Page size newspapers 070.321
Pageants
dramatic customs 394.2
scenario writ'g 808.2
theater 792
processional amusem'ts 791
Pages
legislativ bodies 328.3625
library staff 023.78
numbering of printing 655.27
Paging machines " 655.36
Paidology 136.7
Pail system sanitation 628.42
Pailleron, E. Fr. drama 842.87
Pain sense physiology 612.884

Painless extinction
of animal life 614.971
Paint, prehistoric 571.72
Painted decoration arch. 729.4
Painters biografy 927.5
colic 615.928
Painting
fine art 750
house, sign, etc. 698.1
Paintings
collections of 708
engravings from 750
Paints chem. technol. 667.6
Pairing legislativ procedure 328.375
Palaces architecture 728.3
of rulers " 725.17
peace " 725.12
Palæ- *see* Pale-
Palate
anatomy 611.315
bone anatomy 611.7162
muscles " 611.73276
soft, in speech physiol. 612.7892
Palatinate
[1] Upper, Germany hist. 943.34
war of U. S. history 973.25
Pale blueberry 634.736
Paleobotany 561
Paleografy
[3] English language 421.7
inscriptions 417
Paleolithic age prehist.arch. 571.1
Paleontologic anatomy 611.016
Paleontologists biografy 925.6
Paleontology 560
Paleozoic
period geology 551.72
[1]Palermo history 945.8
travels 914.58
Palestine ancient history 933
[1] modern " 956.9
pre-Judaic hist. 939.45
travels 915.69
Palestrina sacred music 783.4
Palfrey horse 636.13
[4]Pali language 491.3
Palimpsests rare mss. 091
Palingenesis metaphys. 129.4
Palisades fortifications 623.117
Palladium inorgan. chem. 546.98
Palladius Danish misc. 839.8824
Pallium anatomy 611.8131
sacred ornam. 247.6
Palm, J. H. van der 839.3451
Palm muscles anatomy 611.7377
sugar plants 633.65
family fruit culture 634.6
istle 633.5772
Palmaceous fruits 634.6
Palmæ botany 584.5
Palmaris brevis anatomy 611.73772
longus " 611.73752
Palmieri, M. Ital. essays 854.22
Palmistry magic 133.6
Palmists biografy 920.9
Palms botany 584.5
horticulture 716.1
Palmyra ancient history 939.43
Palo Alto, battle Mex.war.973.6234
[1] co. Ia. history 977.7155
Palpebrae anatomy 611.847
Palpebral apparatus sight 612.847
Palsy, *see* Paralysis
Paludan-Müller,F. Dan.poet839.8167
Pamflets
cases for lib. econ. 025.8
miscellaneous collections 040
preservation of 025.4
special library material 025.172
on special topics see subject
Pamirs 958.6
Pamphlets, *see* Pamflets
Pamphylia ancient hist. 939.29
Pampiniform plexus 611.1466
Panaetius Greek philos. 188.4
Panama
congress U. S. history 973.55
hat fiber 633.584
[1] history 986
Pananti, Filippo Ital.satire 857.67
Pancreas anatomy 611.37
diseases of 616.37
physiology 612.34
Pancreatic
artery anatomy 611.13642
duct " 611.373
juice physiology 612.34
secretions animals 591.143
Pancreatico-duodenal artery
inferior anatomy 611.13651
superior " 611.13641
Pancreatin aids to digest. 615.7342
Pandaneæ botany 584.61
Pandects Roman law 349.375
Paneld construction
carpentry 694.5

Panels
carvd arch. decoration 729.56
central elec. station 621.3172
local electric lighting 621.3283
painted arch. decorat. 729.46
Panhandle
[1] **Eastern W. Va. history 975.49**
travel 917.549
[1] **Northern history 975.411**
Panic
financial 1837 U.S.hist. 973.57
1873 " " 973.82
grass cereals 633.172
Paniceae forage crops 633.283
Panics
commercial money 332
production 338
trade 381
[4]**Panjabi language 491.42**
Pannonia ancient hist. 939.86
Panopticon prison syst. 365
Panoramas amusements 791
painting 750
Pantheism nat. theology 212
philosofy 147
Pantheon architecture 722.7
Panthers zoology 599.7
Pantografs elec. traction 621.33472
Pantomimes drama 792
music 782.9
Pantries dom. economy 643.47
Panzacchi, E. Ital. essays 854.88
Paoli Amer. revolution 973.3336
Papacy eccles. polity 262.13
Papal bulls eccles. polity 262
conclaves " " 262.13
infallibility " " 262.13
[1] states, Italy hist. 945.6
supremacy, Ital. " 945.03
Papaver 633.75
Papaveraceæ botany 583.122
Papaw, melon 634.651
northern 634.418
Paper
covers library books 025.7
domestic economy 646.182
engineering materials 620.197
hanging trade 698.6
in books publishing 655.53
manufacture 676
materials fibers 633.59
mills architecture 725.46
money 332.5
roofing bilding 695.7
[2]Papers on spec. topics, see subjects
Paphlagonia ancient hist. 939.31
antiquities 913.3931
Paprika 633.842
[1]Papua history 995
Papuan swine 636.489
Papular affections of skin 616.51
Papyrus manuscripts 091
[5]**Parables English liter. 828**
New Testament 226.8
Parabola analytic geom. 516.25
geometry 513.25
Paraboloid anal. geom. 516.45
Parabosco, G. Ital. fiction 853.45
Paraceles anatomy 611.8138
Paracelsus medieval philos. 189.5
Paracentral lobule anat. 611.81316
Parachutes
aeronautics 629.167
Paradidymis **anat.** 611.633
Paradise
garden of Eden
Bible geog. 220.91
Genesis 222.11
primitiv home of race 572.4
theology 236.6
Paradisi, A. Ital. poetry 851.61
Paraffin chem. technol. 665.4
Paraffining bldg material 691.2
Paraffins organic chem. 547.21
[1]Paraguay history 989
travel 918.9
tea agric. 633.77
Parallax, lunar astronomy 523.31
practical " 522.91
solar " 523.92
stellar " 523.81
terrestrial " 525.16
Parallel
courses education 375.0013
forces physics 531.24
lines geometry 513.13
perspectiv descr. geom. 515.61
planes geometry 513.33
Parallelism Scripture 220.88
Parallels Gospels 226.1
siege works 623.23
Paralysis
diseases 616.842
facial physiology 612.81978
infantil diseases 616.83
public helth 614.54
surgery 617.48

Parasites
animal diseases 616.961
of animals animal hyg. 614.92
pathology of animals 591.2
plants 581.23
vegetable diseases 616.969
Parasitic
animals 591.69
diseases dermatology 616.57
pathology 616.96
public helth 614.55
plants botany 581.69
pests 632.5
Parathyroids anatomy 611.447
physiology 612.442
Parcel post postoffis 383
Parchment manuf. 676
Pardoning
power law 343.2
Parenchyma anatomy 611.665
Parenchymatous absorption
physiology 612.388
Parent and child law 347.6
Parents ethics 173.5
and teachers 371.103
choice of zootechny 636.08244
Parian chronicle
Arundel marbles 481.7
Greek history 938
Parietal
bone anatomy 611.7154
lobe of brain " 611.81312
Parietales botany 583.12
Parieto-occipital fissure
anatomy 611.81315
Paring plow 631.3125
Parini, Giuseppe Ital. satire 857.64
[1]Paris, France history 944.36
travel 914.436
congress of, 1856 341.1
expositions 606
peace of U. S. history 973.26
treaty, U. S. war w. Spain 973.89
Parish
care of sick, fallen, etc. 258
ecclesiastic polity 262.2
government England 352.0423
law 352
libraries 027.8
missions theology 269
work, societies for 256
Park
bildings architec. 725.76
hack horse 636.13
[1]Parke co. Ind. history 977.246
[1]Parkersburg, W. Va. hist. 975.423
Parkings
road engineering 625.77
Parks
flying aeronautics 629.144
hygiene of ground 614.783
recreation 613.75
public landscape gard. 711
local governm't 352.7
Parliament
constitutional law 342.42
England 328.42
houses of architecture 725.11
Parliamentary
blue books 328.424
control administration 351.96
debates 328.422
inquiries legis. proced. 328 372
law 328 1
practis legislat. bodies 328.1
reform England 328.42
writ legislativ bod. 328.351
Parlor domestic econ. 645.62
magic 793
maids dom. econ. 647.25
pastimes 793
Parmenides Gk philos. 182.3
Parmesan cheese 637.3545
Parnell, T: Eng. poetry 821.52
Parny, E. D. D. Fr. poetry 841.57
Parochial
libraries 027.8
schools and libraries 257
education 377.5
[5]**Parodies English liter. 827**
Paroles U. S. civil war 973.773
Parolfactoria anatomy 611 8133
Paroophoron " 611 6677
Parotid glands " 611.3165
Parovarium " 611.6676
Parquetry floors architec. 721.66
Parricide criminal law 343
Parrots domestic birds 636.686
zoology 598.7
[1]Parry Sound dist. Ont. hist. 971.315
Parsee dualism heresies 273.2
Parseeism 295
Parseval Grandmaison, F.A. 841.63
Parsifal legends 398.2
opera 782.2
[3]**Parsing Eng. grammar 425.2**
Parsis biografy 922.95
religion 295

Parsley 635.78
Parsnip field crops 633.44
garden " 635.14
Part songs vocal music 784.8
Parthenogenesis
botany 581.162
physiology 612.6132
zoology 591.162
Parthenon architecture 722.8
Parthia ancient history 935.6
Partial
suffrage electoral systems 324.212
[3]Particles English etymol. 422.9
[3] syntax 425.9
Parties, political 329
social amusem't 793
dom. econ. 642.41
Partington, Mrs Am.hum. 817.34
Partisan warfare mil. sci. 355
Partnership law 347.7
Partridge-shooting 799
Parts electric mach. 621.316
Parturition obstetrics 618.4
physiology 612.63
Party
ballots suffrage 324.253
caucuses legislativ proced. 328.3745
conventions polit. sci. 329
feeling in religion, use of 280
lines telefony 621.3852
organization suffrage 324.233
Paruta, Paolo Ital. essays 854.47
Parzival legends 398.2
[1]Pas de Calais, France hist. 944.27
Passage, final legislation 328.375
[1]Passaic co. N. J. history 974.923
Passavanti, J. Ital. essays 854.12
Passenger
boats shipbilding 623.8234
cars railway engin'g 625.23
elevators lib. bldgs 022.9571
mech. eng. 621.87771
engins steam eng. 621.13265
vessels shipbilding 623.824
Passeroni, G. C. Ital. satire 857.62
Passiflorales botany 583.45
Passifloreæ " 583.456
Passion
music 783.3
plays English literature 822.1
general history 809.2
Oberammergau 792
religion 244
Passionists monast. orders 271.6
Passions philosofy 157
physiology 612.82133
Pastel drawing 741
Pasteurism pub. helth 614.477
Pasteurization buttermaking 637.2336
infant diet 613.22
Pasteurizer dairy 637.1323
Pasteurizing " 637.1333
Paston letters Eng. hist. 942.04
liter. 826.2
Pastoral
letters 252.1
poetry Eng. literature 821.06
theology 250
visitations 253
Pastors ecclesiastic polity 262.1
Pastry room dom. econ. 643.36
Pasture
feeding zootechny 636.08422
land pol. econ. 333.7
Patchouli perfume plants 633.812
[1]Patagonia history 982
travel 918.2
Patella anatomy of bones 611.71845
knee 611.983
Patent
blocks printing 655.22
indexes literary meth. 029.5
law law 347.7
patents 608
medicins adulterations 614.353
state control 614.27
therapeutics 615.88
room lib. bildings 022.64
types printing 655.23
Patents bilding 690.8
engineering 620.08
useful arts 608
Paternalism
in library 021.201
[1]Paterson, N. J. history 974.924
Pathetic nerv anatomy 611.8314
physiol. 612.8194
nuclei anatomy 611.8155
Pathogenesis 616.01
Pathologic anatomy diag. 616.078
Pathology
botany 581.2
medicin 616
mental 132
of labor 618.5
pregnancy 618.3
puerperal state 618.7
zoology 591.2

Patience ethics 179.9
Patola garden crops 635.627
Patriarchal institutions 321.1
Patriarchs of Bible lives 220.92
Patricide law 343
Patriotic societies, American 369.1
Patriotism ethics 172.1
pol. sci. 320.158
Patriots
biografy 923
of America, order 369.125
Patristic
philosofers biografy 921.9
philosofy 189.2
theology 230.1
Patron
saints labor holidays 331.817
Patronage ethics 177.5
Pattern shop mfg plant 621.72
Pattypan squash 635.621
Paul I Russian history 947.07
Paulding, J. K. Am. humor 817.23
[1]Paulding co. O. history 977.117
Paulus Hook Am. revol. 973.3355
Pauper asylums 362.5
architec. 725.55
labor 331.6
Pauperism 339
and illiteracy, pub. educ. 379.22
suffrage disqualifications 324.173
Pavements road eng. 625.8
sanitation 628.47
Pavilly fowls 636.546
Pavlar sheep 636.363
Pavloff fowls 636.571
Pawls mech. engin'g 621.837
Pawnbroking, loan instit. 332.34
[1]Pawtucket, R. I. history 974.53
Pay, extra pol. econ. 331.225
Payment
in kind wages 331.235
methods " 331.235
of legislativ employees 328.3626
Payrolls library finance 025.115
Pea pickers 631.3583
Pea Ridge, Ark. civil war 973.7323
Peabody fund education 373.75
Peace
and war ethics 172.4
conference U.S.civ.war 973.712
efforts for " " " 973.712
Great war 940.312
jubilee Boston 780.973
society internat. ethics 172.4
Peaches fruit culture 634.25
Peacock, T: L. Eng. fic. 823.76
Peacock and
Epervier U. S. war 1812 973.5255
Hornet " " 973.5253
Peacock poultry 636.595
Peanuts nuciculture 634.58
Pearl fishery 639.4
Pearls gems 553.8
Pears fruit culture 634.13
Peas garden crops 635.66
harvesting agric. 631.5563
Peasantry polit. econ. 331.8
social classes 323.33
Peasants war Ger. hist. 943.031
Peat
economic geology 553.21
foundations architecture 721.11
fuel chem. tech. 662.6
domestic econ. 644.22
Pecan 634.521
Pecquet, cistern of anat. 611.423
Pectineus muscle " 611.73823
Pectoral glands " 611.4675
region " 611.942
Pectoralis major " 611.7351
minor " 611.7352
Pedagogics 371
Pedalineæ botany 583.85
Pedata zoology 593.97
Pedersen, K. Dan. miscel. 839.8821
Pedestals arch. design 729.32
Pedestrianism 796
ethics 175.7
Pediatrics medicin 618.9
Pediculosis 616.968
Pedigrees genealogy 929.2
Pediments arch. constr. 721.86
design 729.37
walls 721.28
Pedobaptism 265.1
Pedogenesis zoology 591.163
Pedunculated bodies anat. 611.633
[1]Peebles, Scotland hist. 941.46
[1]Peel co. Ont. " 971.353
Peerage heraldry 929.7
Pegs, husking 631.3613
[4]Pehlevi language 491.53
[1]Peking, China history 951.1
travel 915.11
Peking duck 636.59785
Pelagianism heresies 273.5
Pelasgian architecture 722.6
[1]Pelew ilands history 996.6

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Pelican, ship U.S.war 1812 973.5253
Pellico, Silvio Ital. drama 852.72
Peloponnesian war Gk hist. 938.05
Peloponnesus ancient " 938.6
[1] **modern " 949.5**
Pels, Andries Dutch dram. 839.3242
Pelton wheel water motors 621.232
Pelvic articulations anat. 611.7281
bone " 611.7181
lymphatics " 611.4216
region " 611.96
Pelvimetry 618.52
Pelvis anatomy 611.96
diseases of women 618.13
surgery 617.56
Pelycosauria paleontol. 568.1
[1]Pembroke, Wales history 942.99
[1]Pemiscot co. Mo. history 977.8996
Penæaceæ botany 583.934
Penal colonies crim. law 343.2
law 343
Penalties crim. law 343.2
school 371.54
Penance theology 265.6
Pencils writing materials 652
Pendleton
civil servis act U.S. hist. 973.84
[1] co. W. Va. " 975.491
Pendulum
apparatus geodesy 526.72
operations " 526.73
physics 531.53
Penguin, ship U.S.war 1812 973.5257
Peninsular
campain U.S.civil war 973.7327
[1] **Lower Mich. hist. 977.4**
[1] **Upper " " 977.49**
war Spanish " 946.06
Penis anatomy 611.64
diseases of 616.66
Penistone sheep 636.3255
Penitential music 783.27
Penitentiaries 365
architecture 725.61
Penmanship 652
Pen-names bibliography 014
[1]**Pennsylvania, U. S. hist. 974.8**

For military history, see subdivisions of Special campains and Military history under 973.3, 973.7 and 973.89

travel 917.48
Pennsylvania, colonial soc.of 369.127
Pennyroyal agriculture 633.88
Penobscot
[1] co. Me. history 974.13
expedition Am. revol. 973.3352
Penology criminal law 343.2
Pens writing 652
zootechny 636.0831
Pension
act, Mex. war U. S. hist. 973.85
bill, dependent " 973.85
Pensions
army and navy 351.5
civil servis 351.5
library 023.8
mothers 362.6
old age pol. econ. 331.25
teachers 371.17
Penstocks sewer appurten. 628.257
Pentateuch Bible 222.1
Pentose nutrition 612.39619
Peonage
political economy 331.56
slavery 326.2
People's
palace self-education 374.9
party U. S. politics 329.84
[1]Peoria city, Ill. history 977.352
[1] co. Ill. " 977.352
Peperino economic geol. 553.58
[1]Pepin co. Wis. history 977.547
Pepper
adulterations 614.314
agriculture 633 841
Pepsin
aids to digestion 615.7342
destruction in stomach 612.3232
formation in stomach 612.3232
in gastric juice physiol. 612.3215
in urin " 612.32321
materia medica 615.35
Peptic glands anat. 611.33
Peptones
changes in intestin 612.33274
gastric digestion 612.32245
in urin physiol. 612.461264
nutrition 612.39817
stomach absorption of 612.32274
Peptonuria physiology 612.46668
Pequot indian war U.S.hist. 973.22
Percent tube dairy 637.1276
Perception physiol. psych. 612.8218
psychology 152
Perch fishes 597.5
Percheron draft horse 636.1541
sheep 636.3445

Percussion
caps chem. tech. 662.4
mil. engineering 623.45421
diagnosis 616.074
instruments music 789
Perez, A. Spanish letters 866.32
Perfection ethics 171.3
Perfectionists sects 289.9
Perforating
stamp lib. econ. 025.252
telegrafs communicat'n 654.3
elec. engin'g 621.3822
tools mech " 621.95
Perfumery chemic tech. 668.5
toilet 646.7
plants 633.81
Pericardial artery anat. 611.1355
Pericardium anatomy 611.11
Perichondrium histology 611.01834
physiology 612.754
Peridotite plutonic rocks 552.38
Perigee moon 523.33
Perigord swine 636.445
Perineal region anatomy 611.96
Perineum " 611.353
female obstetrics 618.44
surgery 618.55
Perineurium histology 611.018835
Peringskjöld, J. Swed. misc. 839.7833
Period of
decline physiology 612.67
full development " 612.66
revolution earth 525.31
Periodic law theoret. chem 541.9
Periodical clubs self educ. 374.22
Periodicals
general 050
length of loan lib. econ. 024.62
[2] on special topics see subject
publisht by library 025.126
Periosteum
dental, dis. of dentistry 617.63
diseases 616.71
histology 611.01844
physiology 612.754
Peripatetic philosofers 185
Peritoneum
admin. of medicin by 615.66
anatomy 611.381
diseases of 616.38
physiology 612.339
Peritonitis diseases 616.38
obstetrics 618.73
Periuterin diseases of women 618.13
Periwinkle fishery 639.4
Perjury law 343
Perkinism cures 615.856
Permeability of soil 631.432
Permian formation geology 551.75
Permutation arithmetic 511.5
Pernin-Duployé shorthand 653.38
Peronaeus
brevis anatomy 611.73852
longus " 611.73851
tertius " 611.73846
Peroneal artery " 611.13792
Peronosporeæ botany 589.25
Perpetual motion 531.8
strawberry 634.753
Perrault, C: Fr. fiction 843.47
Perrot burners prac. chem. 542.44
[1]Perry co. Ill. history 977.393
[1] Ind. " 977.229
[1] Mo. " 977.8694
[1] O. " 977.159
[1] Pa. " 974.845
Perry's exped. to Japan
U. S. hist. 973.66
Persecutions theology 272
Perseverance of the saints 234.9
Persia ancient history 935.5
antiquities 913.355
[1] modern history 955
travels 915.5
Persian
architecture 723.3
ancient 722.5
horse 636.11
[4] language 491.55
[4] old 491.51
philosofers 181.5
sheep 636.385
walnut 634.511
wars Greek history 938.03
Persimmons fruit culture 634.452
Persius Flaccus, Aulus
Latin satire 877.4
Person of Christ doc. theol. 232
Personal
appearance costumes 391
ethics 177.4
toilet 646.7
equation mach. astron. 522.54
prac. " 522.97
hygiene medicin 613
liberty English law 347.1
names etymology 929.4

Personal
narrativs
autobiografy **920**
Great war 1914–19 **940.48**
U. S. hist. civil war 973.78
Mex. " 973.628
revolution **973.38**
Span. war 973.898
war of 1812 973.528
[3] pronouns Eng. etymol. 422.7
property English law 347.3
religion 248
rights 347.1
taxation polit. econ. 336.23
use of lib. time by staff 023.92
Personales botany **583.8**
Personality
dogmatics 233.6
for library servis 023.52
teaching 371.11
metaphysics 126
psychology 137
Personation electoral frauds 324.272
Personnel
domestic servis **647.2**
library " **023**
Persons, disinfection
contagious diseases 614.48
Perspectiv
descriptiv geometry **515.6**
drawing 742
effect architec. design 729.15
linear 515.61
projections geodesy 526.81
Perspiration, *see* Swet
Persuasion logic 168
[1]Perth, Scotland history 941.32
[1] co. Ont. " 971.323
Perticari, G. Ital. essays 854.68
Perturbations
earth 525.34
of hevenly bodies **521.4**
Peru
administration **354.85**
antiquities 913.85
architecture 720.985
ancient 722.9
botany 581.985
finance 336.85
geology 558.5
[1] history 985
maps 912.85
schools 379.85
statistics 318.5
Peru
travel 918.5
treaties 341.285
Pesantry polit. econ. 331.8
social classes 323.33
Pesants war Ger. history 943.031
[4]Peshito language **492.3**
Pessimism philosofy 149.6
Pestalozzian system educ. 371.44
Pestifuges dom. econ. 648.7
museums 579.82
Pestilences public helth 614.49
Pestles chem. apparatus 542.22
Pests
agriculture **632**
household dom. econ. 648.7
in museums 579.81
Petards mil. engineering 623.45434
Peter, St epistle 1 227.92
2 227.93
the Great Rus. hist. 947.05
[1]Peterborough city, Ont. hist. 971.368
[1] co. " " 971.367
Peters, S: A. Amer. hum. 817.15
Petersburg, Va.
battle U. S. civ. war 973.7365
lines, assault " 973.7373
Petersen, N. M. Dan. lit. 839.8461
Petition
administration 351.97
electoral lists 324.243
legislativ procedure 328.372
right of Eng. const. hist. 342.429
Petit's canal anat. 611.8447
Petralogy lithology **552**
Petrarca, F. Ital. poetry 851.18
Petri, L. Swed. poetry 839.7122
Olaus " " 839.7121
Petrifaction paleontology **560**
Petroglyphs archeology 571.73
[1]Petrograd, Russia hist. 947.4
trav. 914.74
Petrografy **552**
Petroleum
chemic technology 665.5
domestic fuel 644.23
economic geology 553.28
heating prac. chem. 542.43
locomotiv fuels 621.1331
mineral 549.8
products dom. fuels 644.23
Petrology geology **552**
Petronius Arbiter Lat. sat. 877.5

Petrosal
  ganglion anatomy 611.8919
  nerv, great superficial 611.8315
[1]Pettis co. Mo. history 977.848
Peutingerian tables
    ancient geog. 913
Pew rents cleric support 254
Pewter 739
Peyer's patches anatomy 611.3413
Pfaffe Amis, der Ger. sat. 837.21
Phaedrus Latin poetry 871.6
Phagedæna diseases 616.941
Phagocytosis physiology 612.1123
Phalangeal joints anat. 611.7279
Phalanges of foot " 611.7189
hand " 611.7179
Phalarideae forage crops 633.284
Phalaris Greek letters 886.3
Phallicism 291
Phanariots description 914.961
Phanerogamia botany 582
Phansigars 299.11
Phantoms occultism 133.1
Pharmaceutic chemistry 615
Pharmacists' registration,
    state control of 614.24
Pharmacognosy 615.1
Pharmacology 615.7
Pharmacopoeial drugs
  adulterations 614.351
Pharmacopoeias mat. med. 615.11
Pharmacy
  economic botany 581.63
  practical materia med. 615.4
Pharyngeal
  artery, ascending anat. 611.13324
  tonsil " 611.324
Pharyngobranchii fishes 597.1
Pharynx
  anatomy 611.321
  diseases of 616.32
  muscles anatomy 611.73278
  physiology 612.2154
Phase
  changing transformers
    elec. eng. 621.31434
  converters
    asynchronous elec. eng. 621.31368
    synchronous " 621.31354
  meters " 621.37491
Phaseolae agriculture 633.379
Phases of moon 523.32
Pheasant poultry 636.594
    shooting 799
Phedo Gk philosofers 183.7
[1]Phelps co. Mo. history 977.8594
Phenanthrene org. chem. 547.28
Phenicia ancient history 939.44
[1] modern " 956.9
    travel 915.69
Phenician architecture 722.3
[4] **language 492.6**
    philosofers 181.8
Phenix folklore 398.4
    fowls 636.5857
Phenols organic chem. 547.3
Phenomena, *see* Fenomena
Phi Beta Kappa society 371.85
Philadelphia, Pa.
  capture Amer. revol. 973.3337
[1] city history 974.811
    travels 917.4811
[1] co. history 974.811
  evacuation Am. revol. 973.3343
  exposition 1876 606
    U. S. hist. 973.82
Philanthropists biografy 923.6
Philanthropy ethics 177.7
Philately postage stamps 383
Philemon epistles 227.86
Philharmonics societies 780.6
Philip German history 943.025
  1 French " 944.022
  2 " " 944.023
  3 " " 944.024
  4 " " 944.024
  5 " " 944.024
  6 " " 944.025
Philip 2 Spanish " 946.04
  3 " " 946.051
  4 " " 946.052
  5 " " 946.055
Philippians epistles 227.6
[1]Philippine ilands history 991.4
    travel 919.14
Philip's, King, war
  New England history 974
  United States " 973.24
Philistines ancient history 939.45
Phillips, Wendell Am. orat. 815.34
Phillips code telegrafy 621.382154
Philo Greek philosofers 186.4
Philologists biografy 924
Philology 400
    classic 470–489

Philoprogenitivness phrenol. 139
zoology 591.56
Philosofers biografy 921
Philosofer's stone alchemy 540.1
Philosofic
apparatus 530.7
classification of knowledge 112
instrument making 681
magazines 105
systems 140
Philosofy 100
biografy of 921
natural 530
[2] of special topics see subject
Philydraceæ botany 584.35
Phimosis anatomy 611.642
surgery 617.46
Phlebitis diseases 616.14
puerperal dis. 618.77
Phlebogram physiol. 612.1342
Phlegmasia dolens 618.77
Phlogiston chemistry 540.1
Phlorizin
nutrition 612.396175
toxic glycosuria 612.4644
Phocis, Greece anc. hist. 938.3
Phoebe, ship U.S.war 1812 973.5255
Phoenicia ancient history 939.44
[1] modern " 956.9
Phoenician. *see* Phenician
Phoenix folklore 398.4
fowls 636.5857
Phonetic
shorthand 653
[3] spelling Eng. language 421.4
Phonics elementary educa. 372.4
Phonograf acoustics 534.86
Phonografy 653
Phonolite lithology 552.26
Phonology 414
Phosphates
as fertilizers agriculture 631.85
economic geology 553.64
in urin physiology 612.46162
mineralogy 549.72
Phosphorescence 535.3
of cells and org. physiol. 612.014445
Phosphorescent
animals comp. physiol. 612.772
zoology 591.59
Phosphoric
acid agriculture 631.85
Phosphorus
compounds air pollu. 614.728
in food physiology 612.39244
urin " 612.46162
inorganic chemistry 546.18
materia medica 615.218
nonmetallic poisons 615.924
Photochemistry 541.35
Photo-electrotyping 777
Photo-engraving 777
Photograf cases, library 022.486
Photografic
chemistry 771
method transit of Venus 523.95
optics 535.85
Photografs
collections of 779
library administration 025.177
of animals in motion
art anatomy 743
zoology 591.47
comets 523.69
moon 523.39
planets 523.49
sun 523.79
Photografy
art 770
astronomy 522.63
military 623.72
optics 535.85
Photogrammetry photog. 778
survey'g 526.91
Photogravure 777
Photolithografy 775
Photometric observa. stars 523.82
Photometrics optics 535.2
Photometry astronomy 522.62
visual physiol. 612.84361
Photoplays, *see* Fotoplays
Phototherapy therapeu. 615.831
Phototropism mesology 612.014447
Photo-zincografy 776
[3]Phrase books
English language 428.2
Phrenic
arteries, inferior anat. 611.1361
nerv " 611.83336
physiology 612.819941
sympathetic nervs anat. 611.8393
veins, inferior " 611.1465
Phrenologists biografy 920.9
Phrenology 139
Phrygia ancient history 939.26

[1] Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Phthisis lung diseases 616.246
public helth 614.542
Phyllite lithology 552.44
Phylloerytrin blood 612.1119
Phyllopoda zoology 595.32
Phylloxera agriculture 632.75
Physalis 635.647
Physical
anthropology **573**
astronomy **523**
capacity of women educ. 376.1
chemistry **541.3**
conditions mental char. 136.6
culture rooms Y.M.C.A. 267.327
department " 267.356
director " **267.343**
education hygiene **613.7**
school hyg. **371.73**
geografy **551.4**
geology **551**
laboratories architec. 727.4
properties of blood **612.11**
crystals 548.8
sciences **500**
surroundings ment. char. 136.2
theory of music 781.1
training education **371.73**
units physics 530.8
Physicians
ethics 174.2
lives of 926.1
registration state control 614.24
Physicochemic
forces mesology **612.014462**
Physicochemistry **541.3**
Physics **530**
agricultural 630.23
molecular **539**
Physics, soil **631.432**
Physiocrats polit. econ. 330.152
Physiognomy 138
Physiografy **551.4**
Physiologic
acoustics 534.7
botany **581**
chemistry **612.015**
zoology 591.19
optics 535.7
zoology **591**
Physiology **612**
animal **591.1**
comparativ 612.019
mental 131
Physiology
of labor obstetrics 618.4
pregnancy 618.21
puerperal state 618.6
vegetable **581.1**
vivisection ethics 179.4
method 612.077
pub. helth 614.22
Physostomi fishes 597.5
Phytografy descr. botany **580**
Phytolaccaceæ botany 583.915
Pia mater, cerebral anat. 611.8191
spinal " 611.8291
Piano and organ **786**
music **786.4**
Pianola 789.9
[1]Piatt co. Ill. history 977.367
Picard, L. B. Fr. drama 842.67
[1]Picardy, France history 944.26
Picaresque novel **863.3**
Piccolo musical instrum. 788.5
Piccolomini, A. Ital. essays 854.42
Picenum anc. history 937.4
Pick agriculture 631.3116
[1]Pickaway co. O. history 977.1815
Pickax agriculture 631.3116
Pickers " **631.358**
corn " 631.3553
Picketing labor strikes 331.891
Picking agriculture **631.556**
Picnic lunches dom. econ. 642.3
Pictorial art fine arts **700**
[1]Pictou co. N. S. history 971.613
Picts ancient history 936
Scottish " 941.01
Picture
fittings lib. econ. 022.93
frames decoration 749
galleries fine arts **708**
lib. bldgs 022.656
econ. 021.48
gallery dom. econ. 645.69
Pictures
domestic economy 645.5
Great war 1914-19 940.497
library treatment 025.177
school decoration 371.636
U. S. history civil war 973.797
Mex. war 973.6297
revolution 973.397
war 1812 973.5297
Picturesque
beauty esthetics 701
views and tours **910**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Piecework
payment wages 331.231
[1]Piedmont, Italy history 945.1
Pierce, F. presidency of 973.66
[1]Pierce co. Wis. history 977.542
Pierpont, J: Am. poetry 811.26
Piers
arch. construction 721.3
design 729.32
bridges 624.16
river and harbor engin'g 627.3
suspension bridges 624.56
Pietists heresies 273.7
Piety, practical 240
Pigeon plum 634.665
Pigeons poultry 636.596
zoology 598.6
Pigeonholes offis equipm't 651
Pigment
histology 611.01829
nerv histology 611.01882
Pigmentary changes
dermatology 616.55
Pigments
bile composition 612.35713
origin 612.35733
chemic technology 667.6
eye physiology 612.8425
fine arts 751
inspection of pub. helth 614.37
physiologic chemistry 612.0154
skin anatomy 611.7785
physiology 612.796
urin " 612.46127
Pigmies
folklore 398.4
human biology 573.8
teratology 611.012
Pignut 634.524
Pigs diseases of 619.4
domestic animals 636.4
zoology 599.7
[1]Pike co. Ill. history 977.345
[1] Ind. " 977.236
[1] Mo. " 977.836
[1] O. " 977.1847
[1] Pa. " 974.824
Pilasters
arch. construction 721.86
design 729.32
carvd arch. decorat'n 729.57
painted " " 729.47
Pile
foundations architecture 721.14
engineering 624.154
material architecture 721.14
methods " 721.15
Piledriver
foundations architecture 721.151
engin'g 624.1551
Piledriving 624.1
Piles diseases 616.35
foundations 721.16
Piles, sand foundations 721.41
Pilgrim fathers, Mass. hist. 974.48
Pilgrimages, religious 248
Pillow, Ft U. S. civil war 973.7361
Pillows dom. econ. 645.47
Pilocarpin physiology 612.31342
therapeutics 615.743
Pilot laws 347.7
Pilots protection of life 614.866
seamanship 656
Pinching pruning 631.54221
Pindar Greek poetry 884.5
Pindar, Peter Eng. satire 827.65
Pindemonte, I. Ital. poet 851.63
Pine strawberry 634.751
Pineal gland anat. 611.8145
Pineapple
botany 584.22
fibers agriculture 633.576
fruits " 634.774
squash " 635.621
Pines botany 585.2
forestry 634.9
Pinnipeds mammals 599.7
Pins for electric wires 621.319224
Pioneering tools mil. sci. 355.84
Pioneers biografy 923.9
Pipefish zoology 597.5
Pipefitting bilding 696.1
Piperaceæ botany 583.925
Pipes
elephant Amer. antiqui. 913.73
hydraulics 532.54
on houses sewer ventil. 628.234
prehistoric archeology 571.26
sewer 628.22
steam heating 697.5
transmission 621.185
strength of materials 620.11283
subsurface road engin'g 625.78
waterworks 628.15
Pipethreding machines 621.944

Pipets practical chem. 542.66
gas " " 542.73
graduated " " 542.35
Piping comprest air 621.532
hydraulic pressure 621.253
refrigeration 621.566
shipbilding 623.87
steam engineering 621.185
[1]Piqua city, O. history 977.148
Piracy " 910.4
law 343
Pirates biografy 923.41
Piriformis muscle anat. 611.73816
Piron, Alexis Fr. drama 842.55
Pisa, Guido da Ital. fiction 853.13
[1]Pisa, Italy history 945.5
travel 914.55
[1]Piscataquis co. Me. hist. 974.12
Pisces zoology 597
Pisciculture business 639.3
Pisé walls 721.23
Pisidia ancient history 939.27
Pisiform bones anat. 611.71774
Pissette wash bottles chem. 542.69
Pistachio 634.574
Pistoia, Cino da Ital. poet. 851.16
Pistols manufacture 683
mil. engin'g 623.443
Piston
blowers mech. eng. 621.61
pumps engineering 621.652
steam locomotiv 621.1341
Pit dwellings prehist. arch. 571.82
Pitanga 634.423
[1]Pitcairns iland history 997
travel 919.7
Pitcher plants botany 583.121
Pitchstone lithology 552.23
Pitillas, Jorge Span. satire 867.41
Pitman, Benn shorthand 653.5
Izaac " 653.61
Pitt, William
lord Chatham Eng. orat. 825.61
1759–1806 " " 825.66
Pittosporeæ botany 583.141
[1]Pittsburg, Pa. history 974.886
Landing battle 973.7326
Pituitary
body anatomy 611.8143
physiology 612.492
membrane anatomy 611.21
Pius 4 creed 238.2
Pivot
bridges engineering 624.83
Pizarro discovery of Amer. 973.16
Placenta
embryology 611.01385
obstetrics 618.36
removal in labor 618.87
retention in " 618.56
[1]Placer co. Cal. hist. 979.438
mining 622.32
Placers economic geology 553.13
Places, names of 929.4
Placoids paleontology 567.3
zoology 597.3
Plade, Peder Danish misc. 839.8824
Plagiarism lit. methods 029.6
Plagiostomi fishes 597.3
Plague diseases 616.923
Plagues, hist. of pub. helth 614.49
Plain song cathedral music 783.25
Plains
of the moon astronomy 523.34
physical geografy 551.45
Plaiting fibers 633.5
Plan
architectural design 729.2
of house dom. econ. 643.2
kitchen " " 643.31
library book cases 022.443
Planche, J. B. G. Fr. essays 844.73
Plane
geometry 513.1
inclined physics 531.85
loci analytic geom. 516.1
of orbit in space astron. 521.21
perspectiv 515.61
table surveying 526.96
trigonometry 514.5
Planers, metal 621.912
Planes
aeronautics 629.181
analytic geometry 516.32
descriptiv " 515.11
geometry 513.1
inclined canal eng. 626.5
modern geometry 513.51
solid " 513.31
Planetarium descr. astron. 523.28
Planetary system astron. 523.25
Planetoids astronomy 523.44
Planets
descriptiv astron. 523.4
distributiv laws 523.21
maps and observations 524.4
mutual action 521.41
nonsphericity 521.43

Planets
observations of 523.49
theoretic astronomy 521.5
Planimetry surveying 526.97
Planing mach. mech. eng. 621.91
Planisphere astronomy 522.78
Plank
drag 631.3146
foundations architecture 721.162
scraper 631.3131
Plankers agriculture 631.3146
Planking tillage 631.515
Plans
architectural 720
for bildings 692
libraries lib. bildings 022.3
of cities maps 912
Plant tools agriculture 631.34
Plantagenets Eng. history 942.03
Irish " 941.53
Plantagineæ botany 583.899
Plantain banana 634.773
Plantar artery anat. 611.13795
muscle " 611.73855
veins " 611.14739
Plantation songs 784.7
Planté
accumulators elec. eng. 621.3552
Faure " " " 621.3554
Planters 631.332
Planting agriculture 631.53
Plants
and animals differences 577.5
botany 580
classification of 580.1
culture agriculture 631.5
geologic agents 551.97
injurious agriculture 632.5
botany 581.65
landscape gardening 710
nature-printing from 655.37
nativ, society for protect'g 580.6
nutrition agriculture 631.811
ornamental 716.1
paleontology 561
school decoration 371.638
Plasma, blood physiology 612.12
Plaster
bilding material 691.5
casts sculpture 730
ceilings arch. construc. 721.75
fertilizers agriculture 631.821
Plaster
of paris fertilizers 631.821
art 731
eng. materials 620.15
Plastering masonry 693.6
Plastic surgery 617.95
Plasticity engin'g materials 620.1123
Platanaceæ botany 583.971
Plate
carving 736
domestic economy 642.7
girders bridge engin'g 624.23
glass manufacture 666.1
insurance 368.6
manufacture 671
system icemaking 621.582
Plateaus phys. geol. 551.43
Plated ware manufacture 671
Platen Hallermünde 831.68
Plates
book *see* Book plates
strength of materials 620.11282
Platform
foundations architec. 721.16
engin'g 624.156
suffrage 324.239
Plating
books lib. econ. 025.253
manufactures 671
Platinum
filaments elec. lighting 621.32641
inorganic chemistry 546.92
Plato ancient philosofy 184.1
Greek literature 888.4
idealism 141
Platonic philosofy 184
Platonists, new 186
[4]Platt Deutsch language 439.4
[5] literature 839.4
[1]Platte co. Mo. history 977.8135
Platysma myoides anat. 611.7321
Plautus Latin drama 872.3
Play child study 136.7479
hygiene 613.74
nursery 649.5
Players, lives of 927.92
Playgrounds
laboring classes 331.84
public 796
school 371.61
Playing cards 795
Playright 655.62

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[5]Plays
English drama **822**
mystery history 809.2
religion 244
theater 792
parlor amusements 793
school student life 371.895
Pleading 347.92
[1]Pleasants co. W. Va. hist. 975.421
Pleasure physiology 612.82133
psychology 157
Plectognathii fishes 597.5
Plectral stringd instruments **787**
Pleiocene period geology 551.783
Plesure physiology 612.82133
psychology 157
Plethysmografy physiol. 612.189
Pleura anatomy 611.25
diseases of 616.25
physiology 612.2155
Pleurisy diseases 616.25
Pleuroperitoneal cavity 611.389
Pleuropneumonia
cattle disease 619.24
diseases 616.241
Pliny Latin letters 876.2
Plong, Carl Dan. poetry 839.8168
Plot of 1604–6 Eng. hist. 942.061
1679 " " 942.066
Plotinus Gk philosofers 186.4
Plotting surveying 526.96
Plow agriculture **631.312**
shovel 631.3162
Plowing 631.512
steam machinery 621.146
Plum stone fruits 634.22
Jew 634.442
marmalade 634.432
pigeon 634.665
Spanish 634.443
[1]Plumas co. Cal. hist. 979.429
Plumbagineæ botany 583.671
Plumbago econom. geol. 553.26
Plumbing **696**
house drainage 628.6
laws 696.9
Plums fruit culture 634.22
Plunger pumps engin'g 621.654
Plural
vote electoral systems 324.213
Plurality
election suffrage 324.262
to legislativ body 328.3355
of worlds astron. 523.13
Plutarch Gk filosofers 186.2
literature 888.8
Plutology polit. econ. **330**
Plutonic rocks lithology **552.3**
Plymouth
brethren sects 289.9
[1] co. Ia. history 977.716
[1] Mass. " 974.48
Rock fowls 636.582
settlement Mass. hist. 974.4
U. S. " 973.22
Pneumatic
aspiration therapeutics 615.815
brakes gun mounts 623.43564
caisson foundations 721.173
cleaning engineering 621.549
differentiation therapeu. 615.836
forcing foundations 721.175
pile foundations architec. 721.155
pump physics 533.5
tools engineering 621.542
tubes communication 654.8
engineering 621.549
lib. econ. 022.946
Pneumatics **533**
Pneumatology metaphys. 128
Pneumogastric nerv, *see* Vagus
Pneumografy physiology 612.211
Pneumonia diseases 616.241
Pneumotherapy 615.64
[1]Pocahontas co. Ia. hist. 977.719
[1] W.Va. " 975.487
Pocket veto legislation 328.375
Pockets, card lib. econ. 025.255
Podalyrieae legume crops 633.372
Podophthalma
crustaceans 595.38
gastropods 594.3
spiders 595.4
Podophthalmata crustaceans 595.38
Podophthamia " 595.38
Podophthalmidae spiders 595.4
Podostemaceæ botany 583.921
Poe, Edgar Allan Am. poet 811.32
Poetic
books of Bible **223**
[5] selections Eng. litera. 821.08
Poetry
American literature **811**
English " **821**
French " **841**
German " **831**
Great war 940.49
Greek " **881**

Poetry
[5] **humorous Eng. lit. 827**
Italian literature 851
Latin " 871
[5] **macaronic Eng. lit. 827**
philosophy of 808.1
sacred hymnology 245
[5] **satiric Eng. lit. 827**
Spanish literature 861
other literature see table 5
U. S. history civil war 973.791
Mex. " 973.6291
revolution 973.391
Span. war 973.8991
war of 1812 973.5291
Poets, lives of 928
English 928.21
French 928.41
German 928.31
Italian 928.51
Spanish 928.61
Poikilothermic animals
comp. physiol. 612.39192
Poincaré French hist. 944.08
Pointed architecture 723.5
Pointer telegraf elec. eng. 621.38225
Points animal excellence 636.08114
modern geometry 513.51
Poisond wounds surgery 617.148
Poisonous
cosmetics adulterations 614.355
plants agriculture 632.59
econ. botany 581.65
secretion animals 591.145
Poisons
chemic analysis 543.5
domestic economy 648.7
effect on bile 612.3574
gastric juice 612.324
intelligence 612.8214
intestin 612.334
iris 612.8424
liver 612.354
milk secretion 612.6644
nerv cells 612.82254
nerv. irritability 612.8167
pancreas 612.344
reflexes 612.83394
effect on respiration 612.284
salivary glands 612.3134
swet 612.7924
temperature 612.544
urin secretion 612.464
effects of diseases 616.97
Poisons
elimination by bile 612.3575
gastric juice 612.324
saliva 612.31341
swet 612.79242
urin 612.4643
thru milk 612.6644
house sanitation 648.7
medical jurisprudence 340.6
mesology 612.01446
neuroses from special 616.86
sale of state control 614.28
therapeutics 615.9
vegetable econ. botany 581.69
[1]**Poitou, French history 944.6**
Poitou sheep 636.3444
Poker amusements 795
ethics 175.5
[4]**Polabian language 491.89**
Poland
[1] history 943.8
insurrection of history 947.07
[4] **language 491.85**
[5] **literature 891.85**
partition of history 947.06
[1] Russian " 947.5
Poland China swine 636.482
Polanders poultry 636.552
Polar
duplex telegraf elec. eng. 621.382323
projections descr. geom. 515.54
regions agriculture 631.0911
antarctic travel 919.9
[1] arctic history 998
travel 919.8
Polarimeters quan. anal. 545.8
Polarimetry of urin physi. 612.461176
Polariscope optics 535.5
Polariscopic anal. chem. 544.7
Polarity in rocks geology 551.84
Polarization
of light astronomy 522.65
chemistry 544.7
optics 535.5
Polars
modern anal. geom. 516.55
geometry 513.55
Polders reclamation 631.616
Polemic sermons 252.2
theology 230
Polemoniaceæ botany 583.761
Polemoniales " 583.76

Poles
aerial elec. lines 621.319223
modern anal. geom. 516.55
geometry 513.55
plant support 631.3452
training 631.5461
telegraf communication 654.4
elec. eng. 621.319223
Police
boats shipbilding 623.826
local government 352.2
medical state control 614.29
mesures administration 351.74
sanitary " 351.77
stations architecture 725.18
Policy
legislativ pol. sci. 328.24
Poliomyelitis, anterior, *see* Paralysis, infantil
Polish chem. technology 667.7
Polish bantams 636.58713
discovery of Amer. 973.11
fowls 636.552
[4] **language 491.85**
[5] **literature 891.85**
sheep 636.3331
swine 636.433
Polishing dom. econ. 648.55
painting 698.3
Politeness ethics 177.1
etiquet 395
Political
assessments suffrage 324.233
associations 363
conventions 329
economists' lives 923.3
economy 330
ethics 172.1
history 900
Great war 940.31
U. S. civil war 973.71
Mex. " 973.621
revolution 973.31
Span. war 973.891
war 1812 973.521
organizations 363
parties 329
science 320
sermons 252.6
status of woman 396.3
theory political sci. 320.152
troubles internal relat. 323.2
Politicians biografy 923.2
Politics, American 329
British 329.942
morals of 172.1
relations to pol. econ. 330.1932
Polity, ecclesiastic 262
Poliziano, A. Ital. drama 852.22
poetry 851.24
Polk, J. K. presidency of 973.61
[1]Polk co. Ia. history 977.758
[1] Mo. " 977.877
[1] Wis. " 977.517
Polka piano music 786.44
Poll tax polit. econ. 336.25
Pollak-Virag telegraf 621.38246
Polled cattle Aberdeen 636.2231
Durham 636.2263
Hereford 636.2227
Pollen fertilization 581.3
Pollution
air by cemeteries 614.652
public helth 614.7
water by cemeteries 614.651
supply of towns 628.16
Polo amusements 797
pony 636.161
Polonaise piano music 786.44
Polonium inorgan. chem. 546.892
Polverara fowls 636.553
Polyandry customs 392.6
ethics 173.2
Polycarpeæ botany 583.155
Polychromatic ornament 747
Polycystina zoology 593.14
Polyedrons geometry 513.34
Polygaleæ botany 583.143
Polygalineae " 583.14
Polygamy
criminal law 343
customs 392.6
Edmunds act U. S. hist. 973.84
ethics 173.2
hygiene 613.89
Mormonism 298
Polyglot Bibles 220.5
dictionaries 413
Polygonaceæ botany 583.917
Polygoneutic variation zool. 591.154
Polygons geometry 513.16
Polygrafy special lib. 080
[2] see subject for topical collec.
Polyhedra geometry 513.34
Polymerism chemistry 541.7
Polymorphic variation zool. 591.151
Polymorphism crystallog. 548.3

[1]**Polynesia history 996**
languages 499
travel 919.6
Polypetalæ botany 583.1
Polyphase
machinery elec. eng. 621.31332
traction systems " " 621.33143
transmission " " " 621.31913
Polyphonic school music 783.4
Polypnea respiration 612.223
thermic physiol. 612.534
Polyps zoology 593.6
Polypus diseases 616.992
Polysaccharids nutrition 612.39611
Polytheism 290
Polyuria physiology 612.4641
Polyzoa zoology 594.7
Pomace
fertilizers agriculture 631.847
Pomaceous
fruits agriculture 634.1
Pome
fruits agriculture 634.1
Pomegranate agriculture 634.64
Pomelo 634.323
[1]Pomerania, Ger. history 943.16
Pomeranian sheep 636.3331
Pomology agriculture 634
Pomme Cythere 634.432
Pompadour fowls 636.552
Pompeii description 913.377
Pompey's pillar
Egyptian antiquities 913.32
monuments 718
Pompignan, J. J. de Franc de 841.53
Ponce de Leon Am. discov. 973.16
Pond apple 634.414
Ponds
artificial landsc. garden. 714
physical geology 551.48
Ponies
domestic animals 636.16
student honor 371.81
zoology 599.7
Pons Varolii anatomy 611.8173
physiology 612.8268
Ponsard, François Fr. dram. 842.82
Pontederiaceæ botany 584.34
Pontiac, consp. of Can. hist. 971.02
U. S. " 973.27
[1] co. Que. hist. 971.421
[1]Pontifical states Ital. hist. 945.6
Pontificate, Rom. eccles. pol. 262.13
Pontoon bridges
engineering 624.87
military engineering 623.652
Pontoppidan, E. Dan. misc. 839.8841
Pontus ancient history 939.33
Poolselling ethics 175.9
Poor
laws local government 352.9
pauperism 339
rates 336.28
Poorhouses
architecture 725.55
asylums 362.5
pauperism 339
Poot, H. C Dutch poetry 839.3142
Pop corn 635.677
Pope Great war 940.31522
Pope, Alex. Eng. poetry 821.53
satire 827.55
[1]Pope co. Ill. history 977.3991
Popery ecclesiastic polity 262.13
Popes church history 282
lives 922.2
Popham colony Maine hist. 974.1
Popish plot, 1679 Eng. hist. 942.066
Popliteal
artery anatomy 611.13786
glands " 611.4683
muscle " 611.73856
space " 611.983
veins " 611.1473
Poppy agriculture 633.75
botany 583.122
Popular
ballads 784.4
delusions 133
education, public 379
elections suffrage 324
errors 133
lectures self education 374.5
science 500
soverenty U. S. hist. 973.64
summer schools self educ. 374.8
tumults public order 351.752
Population statistics 312
Porcelain
art 738
chemic technology 666.5
painting 738
vessels prac. chem. 542.232
Porcupines zoology 599.3
Porifera " 593.4
Pork packing air pollut. 614.743
trichinæ pub. helth 614.562

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Porosity, properties of solids 539.2
Porous
terra cotta construc. bldg 693.4
Porphyrite lithology 552.31
Porphyrization prac. chem. 542.22
Porphyry Greek philos. 186.4
Porphyry econ. geology 553.56
lithology 552.31
Porpoises zoology 599.5
Port Hudson, La. siege 973.7347
[1] Huron, Mich. history 977.441
Royal heresy 273.7
persecutions 272.5
S.C. U.S.civ.war 973.751
Porta, G. della Ital. dram. 852.45
Porta anatomy 611.8148
Portable
boilers engineering 621.18423
engins mechan. eng. 621.15
observatories astron. 522.15
[1]Portage co. O. history 977.137
[1] Wis. " 977.553
Portal ligature physiology 612.35151
vein anatomy 611.149
Portents 133.3
Porter, Jane Eng. fict. 823.75
Noah Am. philos. 191.6
[1] Porter co. Ind. history 977.298
travels 917.7298
Porters
domestic servis 647.25
library servis 023.795
lodges architecture 728.91
Portio dura anatomy 611.8317
Portland
cement econ. geology 553.68
manufacture 666.9
vase pottery 738
[1]Portneuf co. Que. hist. 971.4466
[1]Porto Rico history 972.95
Portrait painting 757
Portraits
catalogs of 757
collections of painting 757
engraved 769
Ports, establishm't of tides 525.64
shipbilding 623.85
Portsmouth
[1] England, history 942.27
travel 914.227
[1] O. history 977.1871
[1] Portugal history 946.9
travel 914.69
Portuguese
discovery of America 973.16
East Africa history 967.9
[4] **language 469**
[5] **literature 869**
Romanesque architecture 723.46
swine 636.46
Portulaceæ botany 583.156
[1]Posen, Germany history 943.13
[1]Posey co. Ind. history 977.234
Posidonius Gk philos. 188.5
Position
calculus of anal. geom. 516.8
of body in orbit astron. 521.23
space " 521.24
orbit " 521.22
shorthand 653.01
Positivism philosofy 146
Posology materia med. 615.14
Possession
territorial pol. sci. 320.1263
Possessiv pronouns
[3] English etymology 422.7
[3] syntax 425.7
Post
auricular glands anatomy 611.4632
commissure " 611.8141
mortem exam. pathol. 616.079
Nicene apostolic church 281.4
pliocene period geology 551.79
spade 631.3111
Postage stamps 383
legis. supplies 328.364
Postal savings banks 332.2
servis 383
telegraf 384
Posterior commissure 611.8141
Posters advertising 659.1
cartoons 741
Posthole digger 631.3113
Postl, Karl Ger. fiction 833.74
Postludes organ music 786.85
Postoffis administration 351.816
clerks suffrage 324.247
dep't U. S. admin. 353.4
Postoffises architecture 725.16
sociology 383
Posts carpentry 694.4
army mil. engin'g 623.613
Pot cheese 637.356
Potash
agriculture 631.83
chemic technology 661.3

Potassium inorg. chem. 546.32
salts as food 612.39262
Potato
botany 583.79
field crops 633.491
garden " 635.21
beetle agric. pests 632.76
diggers " 631.3564
disease agriculture 632.4
botany 581.21
Potential
meters elec. eng. 621.3743
regulators " " 621.3145
static electricity 537.21
Potentials
law of attraction 531.51
of ellipsoids geodesy 526.11
Potentiometer elec. engin'g 621.3743
[1]Potenza, Italy history 945.77
Potgieter, E. J. Dutch lit. 839.3453
Potholes geology 551.92
Potomac, army of the
U. S. civ. war 973.7416
[1] **valley W. Va. hist. 975.49**
trav. 917.549
Potpourris orch. music 785.9
Pots, layering 631.335
plant 631.345
[1]Pottawattamie co. Ia. hist. 977.771
Potted layering 631.5344
Potter, Dirc Dutch poetry 839.3115
[1]Potter co. Pa. history 974.855
Potters clays econ. geology 553.61
Pottery
art 738
manufacture 666.3
painting 738
prehistoric 571.55
refractory prac. chem. 542.232
works architecture 725.48
Poultry, diseases of 619.5
domestic animals 636.5
houses 631.22
manure agric. 631.86
Pouter pigeon 636.59611
Poverty pauperism 339
Powder
baking adulterations 614.315
chem. tech. 664.6
gun manufactures 662.3
manufacture 662.3
military engineering 623.452
milk 637.143
Powder
protectiv external agents 615.776
toilet 646.7
Power
balance of polit. science 320.1
delivery elec. traction 621.3315
farm 631.37
gas producers 665.7
meters elec. eng. 621.3746
of removal civil servis 351.92
plants, electric 621.312
gas engin 621.49
steam 621.19
plow 631.3123
pumps engin'g 621.64
railroad engin'g 625.26
roller 631.3141
ship design 623.81
transmission elec. eng. 621.319
mech. " 621.8
vessels shipbilding 623.823
yachts " 623.824
Powers
legislativ pol. sci. 328.34
legislatures 328.34
of library trustees 023.35
separation of Eng. govt. 354.4202
Fr. " 354.4402
Ger. " 354.4302
U. S. " 353.02
[1]Poweshiek co. Ia. history 977.7596
Practical
astronomy 522
chemistry 542
mining 622.2
pharmacy materia med. 615.4
religion 240
sermons 252.4
Practis of medicin 616
state control 614.2
Pragmatic sanction
Byzantine empire 949.5
Gallic church 282.44
political science 321.6
Pragmatism 149.9
[1]Prague, Germany hist. 943.71
trav. 914.371
Prairie plow 631.3125
Prairies phys. geografy 551.58
reclamation 631.611
Praise meetings. pub. worship 264.2
[4]Prakrit language 491.2
Pram, K. H. Dan. poetry 839.8155
Praseodymium inorg. chem. 546.642

Prat fowls 636.565
Prati, Giovanni Ital poet. 851.78
Giovanni da " fict. 853.25
Prawns fishery 639.5
zoology 595.3
Prayer
books, Anglican 264.03
church ritual 264.1
family 249
gage natural theology 217
Lord's gospels 226.9
meetings 264.7
natural theology 217
of Manasses Apocrypha 229.6
private personal relig. 248
Preachers biografy 922
Preaching 251
friars Dominicans 271.2
Pre-Adamites 573.3
[1]Preble co. O. history 977.171
Precedence heraldry 929.7
Precession prac. astron. 522.95
theoret. " 521.9
Precious
metals metallurgy 669.2
mineralogy 549
stones econ. geol. 553.8
mineralogy 549
Precipitation
disposal of sewage 628.34
practical chemistry 542.65
Precocity
child study 136.765
education 371.945
Precolumbian disc. of Amer. 973.11
Precribrum anatomy 611.8133
Precuneus " 611.81318
Predestination doc. theol. 234.9
Predicting machines tides 525.68
Predictions 133.3
Preemption state land 336.13
Preexistence of the soul 129.3
Prefect French loc. gov't 352.0444
Preferential vote 324.224
[3]Prefixes English etymol. 422.2
Pregnancy obstetrics 618.2
pathology of 618.3
physiology 612.63
Prehension of food physiol. 612.311
Prehistoric
archeology 571
man nat. hist. of man 573
Prejudis logic 165
social ethics 177.3
Prelacy ecclesias. polity 262.12
Preludes organ music 786.83
Premature interment 614.61
Prenatal circulation 612.179
Preordination doctr. theol. 234.9
Preparation
of butter 637.23
crops for storage 631.56
transport 631.56
fertilizers agric. 631.812
food zootechny 636.0856
soil 631.51
Preparatory schools, girls 376.63
private 373
public 379.171
Preparedness mil. science 355.21
Prepeduncles anatomy 611.8164
[3]Prepositions Eng. etymol. 422.9
syntax 425.9
Prepuce anatomy 611.642
Preraphaelitism 759.9
Prerogativs
legislativ bodies 328.34
Presages occultism 133.3
Presbyopia physiology 612.8454
Presbyter ministry 262.14
Presbyterian orders 262.18
Presbyterians 285
lives 922.5
Presbytery eccles. polity 262.4
Prescience divine attrib. 231.4
[1]Prescott co. Ont. history 971.386
Prescription-writing 615.14
Presentations
in labor obstetrics 618.42
of decorations Great war 940.464
flags Great war 940.463
U. S. civil war 973.763
Presents, Christmas 394
Preservation
of crops 631.55
fish chem. tech. 664.9
food chem. technology 664.8
dom. economy 641.4
fruits chem. tech. 664.8
meats " " 664.9
milk 637.133
munitions of war 623.481
vegetables chem. tech. 664.8
Preservativs
bilding 691
zoologic collections 579.2
Preserving cookery 641.4

President
French government 354.4403
inauguration ceremonies 394.4
protem legis. bodies 328.3622
ship, & Little Belt U.S.hist. 973.51
capture war 1812 973.5257
U. S. government 353.03
veto power U. S. 353.03
Presidential
elections U. S. 324.73
succession act U. S. hist. 973.85
Presidents biografy 923.1
messages 353.03
[1]Presque Isle co. Mich. hist. 977.482
Press
clippings 029.3
agencies 029.3
code electric eng. 621.382154
hydraulic engineering 621.266
science 532.81
journalism 070
liberty of journalism 070.13
polit. sci. 323.445
library propagandism 021.74
morals of 179.1
printing 655.31
public order 351.751
work printing 655.32
writing for lit. methods 029.6
Presses
baling 631.3642
butter 637.2328
cheese 637.3323
filter practical chem. 542.67
hanging lib. economy 022.481
hydraulic machinery 621.266
practical chemistry 542.68
Pressing cheesemaking 637.3333
hydraulic print'g 655.33
Pressure
arterial physiology 612.182
barometric " 612.27
gages pneumatics 533.82
steam engin'g 621.1847
of air meteorology 551.54
blood physiology 612.14
clothing hygiene 613.484
liquids hydraulics 532.1
regulation accumulators 621.3125
sense physiology 612.883
turbins steam engin'g 621.16523
wind bridge engin'g 624.175
Prestidigitation 791
[1]Preston co. W. Va. hist. 975.482
Pretenders English history 942.07
Prevention of
contagious diseases 614.44
cruelty ethics 179.2
fire protection of life 614.841
Prevost d' Exiles, A. F.
French fiction 843.53
Priapus mythology 291
[1]Price co. Wis. history 977.524
Price's Missouri expedition
U. S. civ. war 973.7374
Prices
of books lib. admin. 025.222
butter 637.2185
cheese 637.3185
food dom. economy 641.31
milk 637.1185
political economy 338.5
Prickly pear 634.7751
Pride ethics 179.8
Priest ministry 262.14
Priesthood " 262.1
Priests
celibacy of 254
ethics 176.2
pigeons poultry 636.59632
Roman cath. biografy 922.2
Primacy eccles. polity 262.13
Primaries suffrage 324.23
Primary
caucus suffrage 324.235
cells electric engin'g 621.353
direct suffrage 324.237
period geology 551.72
schools methods 372
state system 379.18
Prime
meridian cosmic time 529.77
geog. coordin. 525.46
numbers arithmetic 511.3
vertical astron. instru. 522.47
Primers elementary educ. 372.4
Primers military eng. 623.45422
Primeval
man nat. hist. of man 573
prehist. archeology 571
Priming tides 525.63
Primitiv
apostolic church 281.2
baptists sects 286.4
boats shipbilding 623.821
Christianity 270.1
church 281
cropcleaning tools 631.3621

Primitiv
culture 571
harvesting tools 631.351
man, customs of 571
Methodist church 287.4
streak embryology 611.01333
threshing tools 631.3611
Wesleyan church 287.5
Primogeniture law 347.6
Primrose leag polit. assoc. 363
Primulaceæ botany 583.672
Primulales " 583.67
Prince
[1] co. P. E. I. history 971.71
[1] Edward co. Ont. " 971.3587
[1] Edward Is. Can. history 971.7
travel 917.17
[1] George co. Md. history 975.251
Princes education 371.961
Princeton, N. J.
battle Amer. revol. 973.3326
college 378.749
[1] history 974.967
travels 917.4967
Principles, general probab. 519.1
Printed catalogs lib. econ. 025.3
Printers biografy 926.5
marks hist. of printing 655.1
occupation hygiene 613.65
Printing
bill legislativ procedure 328.373
business 655
calico chem. tech. 667.3
inks " " 667.5
library administration 025.12
presses 655.31
telegrafs communicat. 654.3
elec. engin'g 621.3825
trade 655
Prints
books of 769
cloth chem. technology 667.3
Prior, Matthew Eng. poet. 821.51
Prisms
geometry 513.36
library bildings 022.73
lighting 628.9
optics 535.81
Prison
associations 365
contracts polit. econ. 331.5
disciplin 365
life Amer. civil war 973.77
Prisoners
of war ass'n, Union 369.155
internat. law 341.3
Prisons 365
and reformatories arch. 725.6
hygiene 613.57
Great war 1914–19 940.472
labor pol. econ. 331.51
U. S. history civil war 973.77
Mex. " 973.627
revolution 973.37
Span. war 973.897
war of 1812 973.527
Private
banks 332.13
grounds landsc. garden. 712
international law 341.5
judgment eccles. pol. 262.8
legislation 328.378
libraries 027.1
library catalogs, author 018.2
clast 017.2
dictionary 019.2
marks lib. economy 025.251
notes polit. " 332.5
ownership of land 333.3
reading self-education 374.1
schools 373
public aid to 379.121
theatricals 793
ethics 175.2
vs public schools 379.3
worship 248
Privateering
international law 341.3
Privateers 341.3
U. S. history civil war 973.759
revolution 973.358
war of 1812 973.5258
Privately printed books
library economy 025.227
rarities 094
Privation
effects of diseases 616.985
hygiene 613.88
Privies air pollution 614.764
sanitation 628.41
Privileged communications, medico-legal 614.23
Privileges
government library aid 021.86
legislatures 328.347
of library executiv 023.43
special, to library readers 024.7

Privy council Eng. gov't 354.4204
Prize
fighting ethics 175.6
money mil. science 355.13
Prizes
agricultural 630.719
in school education 371.53
international law 341.3
library 020.79
maritime law 347.7
Probabilities mathematics 519
Probate law 347.6
Probation of malefactors 364
Problem of three bodies 521.13
Problems differen. calcu. 517.29
integral " 517.39
see subject
Proboscidea mammals 599.6
Procedure law 347.9
legislativ 328.37
voting suffrage 324.24
Process shops mfg plant 621.794
Processes
antirust bilding 691.7
bilding materials 691
Processional cathed. music 783.29
Processions customs 394.5
Proclus Gk philosofers 186.4
Proctor's creek, Va. battle 973.7365
Prodicus Gk philosofers 183.1
Produce agriculture 633
Production
feeding for zootechny 636.08452
for food stockraising 636.0883
of fertilizers agric. 631.812
metals pol. econ. 332.41
milk 637.12
political economy 338
wages pol. econ. 331.213
Productions of the soil 633
Products
animal, stockraising for 636.0884
Profanity ethics 177.2
Professional
ethics 174
remuneration pol. econ. 331.27
schools 378.99
architecture 727.4
libraries 371.648
see also name of profession
servises bilding 692.8
Professors' salaries educ. 371.161
Professorships
of books and reading 028.6
Profiles fortifications 623.111
Profit sharing pol. econ. 331.24
Profits capital and labor 331.1
stock farming 636.0818
Prognostications 133.3
Program music, orchestral 785.4
Progress
civilization 901
of population, statistics 312
sociology 301
Progression
algebra 512.6
arithmetic 511.6
Progressiv
development of man 575.6
friends sects 289.6
wages economics 331.225
Prohibited
books book rarities 098
bullets small arms 623.45535
Prohibition
party polit. science 329.81
temperance 178.5
Projectil fuzes mil. eng. 623.45423
Projectils
artillery ordnance 623.451
deviation of 525.37
ballistics 623.54
effect of mil. eng. 623.56
military engineering 623.45
physics 531.55
Projection
of shadows perspectiv 515.63
Projections
analytic geometry 516.57
descriptiv " 515
map geodesy 526.8
Prolapsus funis in labor 618.58
Proletariat
social classes 323.33
Proliferous buds 631.5333
Prominences sun 523.75
Promis ethics 174.7
Promiscuity customs 392.6
Promissory notes law 347.7
pol. econ. 332.7
Promotion of pub. welfare 351.8
Promotions, military 355.11
of scholars 371.28
teachers 371.165
Pronator muscle of forearm 611.7374
Prongd shovel 631.3111
[4]Pronominal forms
Eng. etymol. 422.7
[3]Pronouns Eng. syntax 425.7

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

[3]Pronunciation Eng. lang. 421.5
Proof and copy lit. meth. 029.6
legal law 347.94
reading printing 655.25
Propaganda, library 021.79
Propagandism, library 021.7
Propagation
appliances 631.335
of contagious diseases 614.43
light optics 535.2
magnetism 538.2
plants 631.53
sounds acoustics 534.2
zootechny 636.0824
Propellers
aviation 629.184
ballooning 629.164
Propelling
machinery shipbilding 623.87
Proper
motions stars 523.83
names persons, places 929.4
of season cathed. music 783.23
Propertius Lat. lyric poet. 874.4
Property
capital 331
church 254
city local taxation 352.1
law of title to 347.2
literary publishing 655.6
personal law 347.3
qualification legis. bod. 328.331
suffrage 324.46
real law 347.2
state finance 336.1
suffrage 324.13
tax 336.21
theory of pol. econ. 335.01
Prophecy Bible inspira. 220.1
Prophetic books of Bible 224
Proportion
algebra 512.6
arithmetic 511.6
in art esthetics 701
of elevation arch. design 729.13
occupiable area
ground hygiene 614.784
plan arch. design 729.23
Proportional representation 324.224
Proprietary libraries 027.2
Proprius muscle anat. 611.73843
Props, plant 631.3452
Propulsion
shipbilding 623.81
Prorogation legis. bodies 328.356
Proscription crim. law 343.2
[3]Prose composition Gk 488.2
[3] Latin 478.2
Prosencephalon anat. 611.813
Proslavery slavery 326.7
Prosody
comparativ philol. 416
[3] **English language 426**
[3] **Greek " 486**
[3] **Latin " 476**
Prosos cereals 633.173
Prospecting min. engin'g 622.1
Prostate gland anatomy 611.637
diseases 616.65
Prostitution administra. 351.764
ethics 176.5
hygiene 613.87
Prostration, nervous 616.843
Protagoras Gk philosofy 183.1
Protaminic nucleus phys. 612.398191
Protamins nutrition 612.398138
Proteaceæ botany 583.932
Protection
against destruction agric. 632.1
pests " 632.9
dom. econ. 648.7
of animals 591.57
grafts 631.5417
human life from accid. 614.8
plants 631.344
political economy 337.3
Protectiv
devices elec. line 621.3198
stations 621.3178
local telefone 621.38694
telefone stations 621.38794
telegraf 621.38328
external agents, therapeu. 615.776
inoculation pub. helth 614.47
Protectorate Eng. history 942.064
Protectorates pol. sci. 321.027
Proteids chem. of food 641.12
physiology 612.398145
Proteolytic ferments
in gastric juice 612.3215
nutrition 612.3983
physiologic chemistry 612.01513
Protestant
episcopal church 283
episcopalians biografy 922.3
methodist church 287.7
reformation, *see* Reformation
sects, continental 284

Protestantism **284**
and Romanism 282
Protestants, French
persecutions of 272.4
Protonotario, S. Ital. poet. 851.11
Protophyta botany **589.7**
Protoplasm
animal physiology **591.17**
biology 576.2
cell histology 611.01811
nerv " 611.01882
cell physiology 612.01421
muscles 612.71
Protovertebrae embryol. 611.01361
Protozoa paleontology **563**
zoology **593**
Provençal
language **449**
literature **849**
Romanesque architec. 723.44
swine 636.447
[1]**Provence, France history** **944.9**
Proverbs, book of Bible 223.7
folklore 398.9
[1]Providence, R.I. hist. 974.52
[1] co. R. I. " 974.51
Divine theol. 231.5
natural " 214
Province Ger. local gov. 352.0431
of Canada hist. **971.04**
[3]**Provincialisms Eng. lang.** **427**
Proxy
system suffrage 324.223
Pruning
operations **631.542**
tools **631.342**
[1]**Prussia history** **943.1**
Prussian
[4] **language, old** **491.91**
merinos 636.36731
[1] Saxony, Germany hist. 943.18
travel 914.318
Prussic acid mater. med. 615.34
toxicology 615.962
Prytz, A. J. Swed. drama 839.7223
Psalmody music 783.9
Psalms Bible **223.2**
hymnology 245
Psalter Anglican ritual 264.038
Pseudipigrafa 229
Pseudo gospels 229.8
Pseudocele anat. 611.8139
Pseudomorfs crystallog. 548.6
Pseudoneuroptera insects 595.73
pests 632.73
Pseudonyms bibliografy **014**
Psoraleae forage crops 633.375
Psychiatry, *see* Insanity
Psychic
influence on digestion 612.3281
medicin mental pathol. **132**
nervous diseases **616.8**
phenomena 134
reflexes physiol. 612.8216
research mind and body 130
Psychology
comparativ physiology **612.82131**
of fashions dom. econ. 646.01
labor pol. econ. 331.015
pedagogic 370.15
philosofy **150**
physiologic **612.821**
Psychomancy divination 133.3
Psychometry physiology 612.8211
Psychomotiv centers " **612.8252**
Psychophysical laws 612.82188
Psychotherapy therapeu. 615.851
Psychrometry meteorol. 551.57
Pteridophyta botany **587**
Pterodactyl paleontology 568.18
Pteropoda zoology 594.4
Pterosauria reptils 598.18
Pterygoid muscles anat. 611.73273
Ptomains
animal poisons 615.94
physiology of nutrition 612.398195
urin 612.461262
Ptyalin salivary action 612.3132
tryptic digestion 612.3423
Puberty physiology 612.661
Pubic joints anatomy 611.7281
Pubis " 611.71813
Public
accounts administra. 351.72
administration **350**
analysts adulterations **614.3**
annuities 336.35
baths 613.47
begging state control 351.763
bildings architecture **725**
care of 647.96
local governm't 352.5
charities 361
charity state control 351.84
credit polit. econ. 336.34
customs **394**
debt finance **336.3**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Public
documents legis. bodies 328
library aid 021.841
preservation 025.8
print'g & distrib. 655.59
education 379
administration 351.851
finance 336
gaming state control 351.762
gardens 711
helth 614
laws 614.09
local gov't 352.4
lands 336.1
law 340
libraries 027.4
state control 351.852
library author catalogs 018.1
clast " 017.1
dictionary " 019.1
fee lib. econ. 024.26
notes polit. econ. 332.5
occasions sermons 252.6
offisers, duties of ethics 172.2
offises architecture 725.13
safety administration 351.75
sanitation 614
schools education 379
securities polit. econ. 336.3
servis commissions 380
shows ethics 175.1
speakers hygiene 613.65
speaking, oratory 808.5
spirit patriotism 172.1
urinals sanitation 628.45
use and waste of water 628.17
utilities commerce 380
vs private schools 379.3
welfare administration 351.8
works " 352.5
worship 264
Publications, library 025.122
Publicity
election expenditures 324.273
Publisher, library as 021.25
Publishers
and authors 655.52
author catalogs 015
circulars 015
lives 920.4
Publishing business 655.5
history of 655.4
societies 655.58
Pucci, Antonio Ital. satire 857.14
Pudendal plexus anat. 611.8359
Pudic nerv " 611.83595
plexus " 611.8359
[1]Puebla, Mexico history 972.4
Pueblos dwellings 571.85
Puerperal
diseases obstetrics 618.7
fever pathology 618.72
public helth 614.545
state obstetrics 618.6
Pugilism amusement 796
ethics 175.6
Puissant's deduction
L.M.Z. formulæ 526.48
Pujol Catalan poetry 849.9136
[1]Pulaski co. Ill. history 977.3998
[1] Ind. " 977.292
[1] Mo. " 977.857
Pulci, Luigi Ital. satire 857.22
Puller, stump 631.3117
Pulley physics 531.84
Pulleys mech. engin'g 621.856
Pulmonary
artery anat. 611.131
aneurism and emb. 616.247
circulation, blood pressure 612.148
elasticity 612.212
muscles physiology 612.2153
respiration animals 591.127
valvs anatomy 611.12656
veins " 611.141
Pulmones anat. 611.24
Pulmotor
first aid 617.18
drowning 614.812
suffocation 614.82
physiology 612.2321
therapeutics 615.64
Pulp, dental
diseases of dentistry 617.61
Pulpit
clergy 262.1
eloquence homiletics 250
library propagandism 021.76
oratory 251
Pulpits
architectural accessories 729.92
sacred furniture 247.1
Pulse
diagnosis pathology 616.071
physiology 612.16
venous physiology 612.1342
wave of blood physiol. 612.16
Pulverization prac. chem. 542.22

Pulverized
fertilizer distributor 631.3336
Pulverized fuel appliances 621.18377
Pulverizer harrows 631.3134
Pulverizing plow 631.3126
Pumis stone econ. geol. 553.69
lithology 552.23
Pump
air pneumatics 533.5
practical chem. 542
condensing pneumatics 533.83
force " 533.84
suction " 533.85
wells waterworks 628.12
Pumping
engins mechan. eng. 621.64
rams, hydraulic 621.273
stations sewerage wks 628.29
vs gravitation waterwks 628.12
Pumpkins forage 633.39
kitchen garden 635.624
Pumps engineering 621.64
hydraulic 621.252
injection, hydraulic 621.267
reclamation 631.65
ship machinery 623.87
steam plant 621.1973
Punching tools 621.96
Punctuality lib. econ. 023.612
[3]Punctuation Eng. lang. 421.9
Punctured wounds surg. 617.144
Punic wars Roman hist. 937.04
Punishment
capital criminal law 343.2
corporal school 371.55
eternal theology 237.7
future " 237.6
law 343.2
military 355.13
school 371.54
[1]Punjab, India history 954.5
travel 915.45
Pupa embryology 591.34
Pupil of eye anatomy 611.8421
physiology 612.8421
Pupillometers " 612.84211
Pupin coils telefony 621.38785
Puppet plays 792
Purchase
of animals zootechny 636.08112
college degrees 378.26
farm 631.112
fertilizers 631.817
territory pol. sci. 320.1267
Purchases farm economics 631.171
Pure food pub. helth 614.3
Purgativs physiology 612.3344
therapeutics 615.7323
Purgatory theology 236.5
Purification of wastes 628.546
Purifiers, feedwater 621.1972
Purin
compounds nutrition 612.398195
Puritanism theology 285.9
Puritans Eng. history 942.06
relig. hist. 274.2
Mass. history 974.4
persecutions by 272.8
Purpose ethics 171
Purslane 635.46
Pus medicin 617.22
Puseyism theology 283
Push hoe 631.3152
[4]Pushtu language 491.58
Pusley 635.46
Pustular affections of skin 616.52
Putativ elements chemis. 546.99
[1]Putnam co. Ill. history 977.337
[1] Ind. " 977.249
[1] Mo. " 977.823
[1] N. Y. " 974.732
[1] O. " 977.118
[1] W. Va. " 975.435
Putrefaction bacteria 589.95
[1]Puy de Dôme, Fr. hist. 944.59
trav. 914.459
Puzzles 793
Pyemia diseases 616.943
Pygmies, *see* Pigmies
Pyknometers prac. chem. 542.3
Pyloric
artery anatomy 611.13641
glands " 611.33
nervs " 611.8393
vein " 611.1493
Pylorus " 611.334
Pyramidal tract of myel 611.8252
Pyramidalis abdominis 611.7362
Pyramids anatomy 611.8181
Egyptian 913.32
geometry 513.35
Pyrenean sheep 636.346
Pyrenees mts travel 914.6
Pyrénées
[1] Orientales, Fr. hist. 944.89
Pyrenomycetes botany 589.235
Pyrites mineral 549.3
Pyrografy 736

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Pyrometry temperature 536.52
Pyrotechnics chem. tech. 662
Pyrrhonism Gk philosofy 186.1
Pythagorean philosofy 182.2
Pythias, knights of sec.soc. 366.2

Quackery
delusions 133.7
medical state control 614.26
Quadrant astron. instrum. 522.41
ordnance " 623.4621
Quadrate lobe anatomy 611.81318
Quadrature
integral calculus 517.33
of circle geometry 513.21
Quadratus femoris anat. 611.73819
lumborum " 611.7368
Quadric surfaces
analytic geometry 516.42
modern analytic geom. 516.58
geometry 513.58
Quadriceps femoris anat. 611.73822
Quadrigeminal arms 611.8153
Quadrigeminum anat. 611.8153
physiol. 612.8265
Quadrilateral
adjustment of geodesy 526.52
Quadrilaterals plane geom. 513.15
Quadrumana zoology 599.8
Quadrupeds " 599
Quadruple expansion engins 621.11267
Quadruplex
telegrafs communica. 654.2
elec. eng. 621.38234
Quagga 636.184
Quail shooting 799
zoology 598.6
Quakers lives 922.88
persecutions 272.8
sects 289.6
Qualifications of
library executiv 023.41
staff 023.51
trustees 023.33
readers lib. econ. 024.1
teachers education 371.11
voters suffrage 324.1
Qualitativ analysis chem. 544
Quality
metaphysics 111
of food domestic econ. 641.31
Quantics algebra 512.87
Quantitativ analysis chem. 545
Quantities bilding 692.5
Quantity
[3] English prosody 426.1
metaphysics 119
meters elec. engin'g 621.3745
of albuminoids in tissues 612.3978
blood physiology 612.116
in organs 612.189

Quantity
of carbohydrates in tissues 612.3967
clothing hygiene 613.482
fat in food & tissues 612.3977
lactic secretion 612.66431
water in tissues 612.0144613
Quarantine
administration 352.4
contagious disease 614.46
laws local government 352.4
Quarries, prehistoric 571.21
Quarrying min. engin'g 622.22
Quarrymen's occupation 613.66
Quartermasters mil. adm. 355.33
Quarters, servants architec. 728.92
Quartet sacred music 783.8
Quartets vocal music 784.84
Quartz lithology 552.45
mineralogy 549.5
receptacles chem. 542.231
Quartzite lithology 552.45
Quaternary age geology 551.79
Quaternions mathematics 516.8
Quays harbor engineering 627.3
Quebec, Canada
act Can. hist. 971.02
city, Que. capture U.S.hist. 973.26
[1] history 971.4471
[1] **co. " " 971.447**
Quebec
Jersey cattle 636.2832
[1] **province history 971.4**
travels 917.14
Queen
Anne architecture 724.5
[1] co. Md. history 975.234
Anne's war U. S. " 973.25
[1] Charlotte ilands, B.C. hist. 971.1
[1]Queens co. Ireland " 941.87
[1] New Bruns. " 971.542
[1] New York " 974.724
[1] Nova Scotia " 971.624
[1] P. E. I. " 971.74
lives of 923.1
[1]Queensland history 994.3
Queenstown, battle
U. S. war of 1812 973.5233
Quercineae botany 583.976
Quercy swine 636.445
[1]Querétaro, Mexico history 972.4
Quesnes de Bethune 841.15
Questioning, art of educat. 371.35
Questions, books of " 371.35
on special subject see subject
Quevedo Villegas, F. G. de
Spanish satire 867.3
Quicksand
foundations architecture 721.11
Quicksilver, *see* Mercury
Quietism heresies 273.7
Quietists, persecution of 272.5
Quince 634.14
[1]Quincy, Ill. history 977.344
system education 371.47
Quinet, Edgar Fr. essays 844.81
Quinin therapeutics 615.75
Quinones organic chem. 547.6
Quinsy diseases 616.31
Quintana, M. J. Span. poet. 861.51
Quintilian Latin oratory 875.6
Quohog fishery 639.4
Quoits amusements 796
Quota system suffrage 324.224
Quotas U. S. civil war 973.7412
[5]**Quotations Eng. liter. 828**
gener. collec. 808.8
Quotient, respiratory 612.231

Rabbinic learning Judaism 296
Rabbits dom. animals 636.9
zoology 599.3
Rabelais, F. French satire 847.32
Rabener, G.W; Ger. " 837.61
Rabies *see* Hydrophobia
Racan, H. de B. Fr. poetry 841.43
Race
betterment 613.94
horse amusements 798
domestic animals 636.12
influence on mind 136.4
mortality public helth 614.144
suffrage 324.15
Racemose cherries 634.24
Races, coeducation of 371.99
hed and tail 621.29
movements of pol. sci. 323.1
of man 572
zootechny 636.08211
Rachel, Joachim Ger. sat. 837.52
Racine, Jean Fr. drama 842.45
Louis poetry 841.52
[1]Racine city, Wis. history 977.597
[1] co. " " 977.596
Racing amusements 798
ethics 175.7
news journalism 070.446
library econ. 024.58
Rack
railways engineering 625.33
Radial artery anatomy 611.13431
muscles " 611.7376
nerv " 611.8337
Radiant energy of sun 523.72
matter 539.1
points meteors 523.53
Radiates paleontology 563.2
zoology 593.2
Radiation of heat physics 536.33
physiol. 612.52
Radical axes mod. geom. 513.54
Radicals, chemic 541.6
Radicular fibers of cord 611.8268
Radiocarpal joint anat. 611.72744
Radiochemistry 541.38
Radio culture 631.5882
Radiografy
diagnosis pathology 616.077
Radiolaria zoology 593.14
Radiotelegrafy elec. engin'g 621.3842
Radiotherapy medicin 615.84
Radioulnar joint, inferior 611.72741
superior 611.72734
Radioulnaris proximalis 611.72734
Radish 635.15
Radium inorgan. chem. 546.432
Radius anatomy 611.7175
vector astronomy 521.38
[1]Radnor, Wales history 942.96
sheep 636.3245
Raffia domestic econ. 646.185
fibers 633.582
Raft
bridges engineering 624.87
Rafts
ship equipment 623.86
shipbilding 623.8212
Rag gourd 635.627
Ragged schools 377.7
Rags, control of pub. helth 614.463
disinfection " " 614.48
Rahbek, K. L. Dan.poetry 839.8157
[1]Rahway, N. J. history 974.938
Raiids fishes 597.3
Railroad
accidents pub. helth 614.863
transportation 656
corporations 385
electric 621.33
engineering 625
elevated 625.4
freight houses archit. 725.32
government admin. 351.812
horse mechan. engin'g 625.6
land grants pub. finance 336.14
law 385
locomotivs 621.13
men Y. M. C. A. 267.362
officials' lives 923.8
passenger stations arch. 725.31
passes, legislativ 328.347
rate regulation 385
reports, state 385
shops architecture 725.33
transportation business 656
sociology 385
travel protection of life 614.863
Railroading 656
Rails electric engineering 621.3332
railroad " 625.15
shipbilding 623.85
Railway
bridges engin'g 624.12
cookery 641.576
employees suffrage 324.247
guides transportation 656
stations, care of 647.9631

Railways, military **623.63**
Rain
agric. hindrances 632.16
protection against zoot. 636.08366
Rainfall farm economics 631.11
meteorol. 551.57
Rainless regions " 551.58
[1]Rainy River dist. Ont. hist. 971.311
Raising library funds **021.9**
[1]Rajputana, India history 954.4
Rakes, garden 631.3156
hay 631.3532
Raking 631.515
Ralegh, W. discov. of Am. 973.17
[1]Raleigh co. W. Va. history 975.473
[1] Ralls co. Mo. history 977.8355
Ram, hydraulic engin'g **621.27**
physics 532.83
Rambouillet sheep 636.3674
Ramelsloher fowls 636.533
Ramie agriculture 633.55
botany 583.962
Rammers artillery 623.463
Ramsay, Allan Eng.poet. 821.54
Ramsour Mills,N.C. Am.rev. 973.3361
Ramus of mandible anat. 611.71643
Ranales botany **583.11**
Ranch, cattle 636.2
Ranches zootechny 636.0813
Randolph, John Am.orat. 815.24
[1]Randolph co. Ill. history 977.392
[1] Ind. " 977.266
[1] Mo. " 977.828
[1] W. Va. " 975.485
Range
domestic economy 643.33
finders ordnance 623.4625
scales " instr. 623.4621
Rank heraldry **929.7**
Ranks, special education **371.96**
Ranunculaceæ botany 583.111
Ranvier's nodes histology 611.0188
Rapateaceæ botany 584.3934
Rape agriculture 633.42
botany 583.123
law 343
Raphia fibers 633.582
Rapidfire guns ordnance 623.4223
Rapidity of flow of blood
physiology 612.15
Rapisardi, M. Ital. poetry 851.86
Rappists sects 286.7
Raptores birds 598.9
Rare
binding book rarities 095
books lib. restrictions 024.672
earths inorgan. chem. **546.6**
illustrations rarities 096
printing " 094
Rarissima " **090**
[1]Raritan, N. J. history 974.972
Rarities bibliografy **090**
lib. admin. 025.171
Rasores birds 598.6
Raspberries **634.711**
Rat disease carrier 614.43
domestic economy 648.7
noxious animal 591.68
zoology 599.3
traps dom. economy 648.7
Ratchet gearing engin'g 621.837
Ration
during growth physiol. **612.394**
for adults " **612.395**
Rational feeding zootech. **636.0844**
Rationalism nat. theology 211
Rationalistic age relig.hist. 270.8
Rationalists,apologetics agst 239.7
Rations zootechny 636.08441
Rattan fibers 633.588
Rattlesnake zoology 598.12
Rauch, H. J. Dan. drama 839.8231
Raven zoology 598.8
Raw
materials, duties on 337.6
mil. resources 355.24
[1] Ray co. Mo. history 977.819
system school gov't 371.595
Reaction of blood physiol. 612.121
time psychometry 612.8211
Reactors elec. engin'g 621.3146
Read, T: B. Am. poetry 811.35
Readers
aids library economy **028**
[3] elementary, Eng. lang. 428.6
librarian's relations to 023.43
qualifications lib. econ. **024.1**
rules " " **024**
[3] selections Eng. language 428.7
Reading
and aids **028**
art of 808.5
[5] **books, higher, English** **820.8**
clubs lib. relations 021.41
self education 374.22
courses 028.3
desks offis equipment 651

Reading
elementary education 372.4
first legislation 328.3741
for the young 028.5
lists, school educ. 371.643
of librarians 023.535
library executiv 023.42
private self education 374.1
proofs printing 655.25
room rules lib. econ. 024.51
rooms, branch lib. bldgs 022.17
free, library econ. 027.9
laboring classes 331.85
library economy 022.5
Y. M. C. A. 267.3533
second legislation 328.3741
third " 328.3743
Readings, halls for archit. 725.83
Ready-reckoners 658
Reagents chem. anal. 544.11
Real
character universal lang. 408.9
estate law 347.2
taxation pol. econ. 336.22
presence theology 265.3
property law 347.2
Realism philosofy 149.2
Realty law 347.2
Reamers machine tools 621.954
Reapers agriculture 631.354
steam engin'g 621.146
Reaping 631.554
hook 631.3511
Reapportionment
representat'n 328.3345
Reason
in animals zoology 591.51
intuitiv faculty 156
natural theology 210
physiologic psychology 612.8213
Reasoning faculty " 153.6
Rebellion
Canadian history 971.038
1717, 1745 Irish hist. 941.57
political science 323.2
southern U. S. hist. 973.7
Reboul, Jean Fr. poetry 841.75
Rebuses amusements 793
Recall administration 351.9
Receipt, *see* Receit
Receit
books cookery 641.5
index library economy 025.236
Receits
library economy 020.83
finance 025.114
medicin 615
useful arts 602
workshop chem. tech. 660
on special subjects see subject
Receivers law 347.7
telefone 621.3863
telegraf 621.3833
Receiving vaults archit. 726.8
Recent period geology 551.791
Receptacles prac. chem. 542.23
for butter 637.2351
milk 637.1327
plants 631.346
Receptaculum chyli anat. 611.423
Reception
of goods lib. economy 025.233
room dom. " 645.62
Receptions " " 642.43
Recesses in schools 371.24
legislativ bodies 328.355
Recessional cathedral serv. 783.29
Recipe books cookery 641.5
Recipes, *see* Receipts
Reciprocal
polars analytic geom. 516.55
modern " 513.55
Reciprocating steam engins 621.112
Reciprocity free trade 337.9
Recitation rooms archit. 727.1
Recitations education 371.32
Recitative music 784.2
Reclamation
drainage agriculture 631.6
engineering 627.5
irrigation agriculture 631.7
engineering 626.8
Recognition hereafter
doctrinal theology 237
Recoil
mechanism ordnance 623.4356
mounts mil. engin'g 623.574
Recommendations
legislativ procedure 328.372
Reconnaissance geodesy 526.31
Reconstruction U. S. hist. 973.8
Record
accession lib. econ. 025.241
clock library econ. 023.611
offises architecture 725.15
Recorders, telegraf 621.3833
Recording meters, elec. 621.373

Records, legislativ 328.363
school 371.2
Recreation
bildings architecture 725.8
hygiene 613.7
rooms lib. bildings 022.66
Recreations
hygiene 613.74
laboring classes 331.84
school hygiene 371.74
Recreativ arts 790
Recruiting mil. science 355.22
Rectangular coordinates
spheric astronomy 522.72
Recti capitis anatomy 611.7319
Rectifiers electric eng. 621.3137
Rectilinear motion dynam. 531.31
Rectum
administration of med. 615.62
anatomy 611.35
diseases 616.35
physiology 612.366
Rectus
capitis anticus major anat. 611.7337
minor " 611.7338
lateralis " 611.7319
femoris " 611.73822
Recuperators gun mounts 623.4357
Red
Bank, N. J. Am. revol. 973.3337
cattle, polled 636.2264
shorthorn 636.2225
corpuscles physiology 612.111
proportion 612.1128
Cross societies charities 361
Great war 940.4771
globules of blood physiol. 612.111
kafir 633.177
pepper 633.842
raspberries 634.714
river
campain U.S.civ.war 973.7363
exped. " " " 973.754
rebellion Can. hist. 971.051
[1] river settlement, Can. hist. 971.27
trav. 917.127
sea physical geografy 551.467
swine, Berkshire 636.4263
Jersey 636.483
Tamworth 636.4262
top 633.23
vegetable dyes 633.863
Redcap poultry 636.525
Redemption theology 234.3
Redemptionists mon. orders 271.79
Redemptorists " 271.6
Reds, shorthaird goats 636.396
Reduced wages pol. econ. 331.5
Reducing valvs steam eng. 621.1854
Reduction
in organisms phys.chem. 612.01536
of results geodesy 526.75
[3]Reduplication Eng.etymol. 422.3
Redwood botany 585.2
Redy reckoners 658
Reed wind instruments 788.9
Reeds 633.586
Reefs, coral geology 551.96
Reenberg, Töger Dan.poet. 839.8142
Reference
books library admin. 025.5
restricted lib. econ. 024.671
use of aids 028.7
department lib. econ. 025.5
hours " " 024.36
exact literary methods 029.1
room lib. bildings 022.53
staff " economy 023.73
use of libraries 024.5
References, reader's 024.14
Referendum legislation 328.264
polit. science 321.4
Refiners' occupation hyg. 613.62
Refining oil public helth 614.724
cheesemaking 637.3332
Reflecting
circle astron. instrum. 522.41
instruments optics 535.87
telescopes astron. 522.21
Reflection heat 536.31
light 535.3
mental faculty 153.4
Reflections perspectiv 515.64
Reflex action physiology 612.833
zoology 591.18
Reflexes
cardiac physiology 612.1786
psychic " 612.8216
respiratory " 612.288
Reform
bill, 1832 Eng. suffrage 324.42
civil servis 351.6
legislativ bodies 328.394
prison sociology 365
schools 364
architecture 725.64
education 371.93
sociology 301

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Reform
[3] spelling Eng. language 421.4
suffrage 324.28
Reformation
age of Europ. history 940.22
German history 943.03
religious " 270.6
Scandinavian history 948.04
Swiss history 949.403
Reformatories
architecture 725.6
hygiene 613.57
temperance 178.6
Reformatory associations 364
Reformd
church, Dutch 284.1
in Amer. 285.7
episcopal church 283
presbyterian " 285.5
Reformers biografy 923.6
Refracting
media of eye anat. 611.844
physiology 612.844
telescopes 522.22
Refraction
heat 536.32
ocular physiology 612.844
ophthalmology 617.75
optics 535.3
practical astronomy 522.92
Refractometers optics 535.3
quan.anal. 545.8
Refractory period
brain physiol. psych. 612.8211
hart physiology 612.1723
reflexes compar. physiol. 612.82932
physiology 612.833951
Refreshment bild'gs arch. 725.7
Refreshments dom. econ. 642.2
Refrigeration
apparatus dairy 637.1321
mechanical engin'g 621.56
shipbilding 623.826
Refrigerators dom. econ. 643.37
Refuge, houses of 364
Refuse, *see* Waste
Regaldi, G. Ital. poetry 851.77
Regattas amusements 797
college and sch. 371.75
Regencies Eng. admin. 354.4203
const.hist. 342.429
Regeneration
of bone physiology 612.753
liver " 612.359
Regeneration
of muscle " 612.7465
nervs physiology 612.8185
physiologic zoology 591.16
physiology 612.603
theology 234.4
Regents library gov't 023.3
Reggio di Calabria, Italy
[1] history 945.79
travel 914.579
Regicides biografy 923.41
Regimen hygiene 613
Regiment mil. science 355.31
Regimental hist. U.S.civ.war 973.744–49
Regiments, history of state 353.9
Regional anatomy 611.9
surgery 617.5
Registers, family 929.3
of births 929.3
deeds law 347.2
servants 647.29
U. S. army offisers 353.6
navy " 353.7
Registration
of conveyances law 347.2
land Torrens system 333.3
readers lib. economy 024.15
public helth 614.1
statistics 311
system suffrage 324.242
Regnard, J: F. Fr. satire 847.47
Regnault gasometers chem. 542.75
Regnier, Mathurin Fr. sat. 847.35
Regular
army U. S. civ. war 973.7411
and navy union 369.111
vet. soc. 369.112
baptists sects 286.1
Regulation
of animal heat physics 612.53
medical practis 614.25
voltaic current eng. 621.3527
Regulations
army military science 355
navy naval " 359
readers library econ. 024
Regulators
feedwater steam eng. 621.1972
potential elec. eng. 621.3145
sewerage 628.258
vacuum prac. chem. 542.77
see also special subject
Reid, T: British philos. 192.5
intuitionalism 143
Reign of terror Fr. hist. 944.044

Reil, iland of anatomy 611.81319
Reinaert Dutch satire 839.371
Reincarnation 129.4
Reindeer
domestic animals 636.294
milk cheese 637.3553
ship U. S. war of 1812 973.5255
zoology 599.7
"Reineke Vos" Ger.satire 837.31
Reinforced
blocks roads 625.87
concrete engin'g 620.137
Reissner's fibers anat. 611.828
Relapsing fever diseases 616.924
Relations
domestic, political science 323
foren " " 327
international 327
of capital and labor 331.1
church and state
ethics 172.3
pol. sci. 322
librarian and staff 023.55
to public 023.43
teachers to community 371.104
parents 371.103
Relationship 929.1
Relativ
location lib. econ. 025.8
majority suffrage 324.263
[3] pronouns Eng. etymol. 422.7
[3] syntax 425.7
Relays, telegraf elec. eng. 621.38321
Releasing-gear engins 621.1644
Relics miracles 231.7
Relief
corps, women's 369.161
decoration in architec. 729.5
bilding 698.8
maps phys. geog. 551.4
special regions 914–919
union, woman's veteran 369.162
work charity 361
parish 258
Religion 200
and education 377
science apologetics 239.8
nat. theol. 215
Christian 200
comparativ 290
natural 210
practical 240
suffrage qualifications 324.15
Religions, non-Christian 290
Religious
anecdotes 244
architecture 726
art 246
associations 206
general, for activ work **267**
local parish work 256
of special sects 280
on special subjects see subj.
biografy 922
ceremonies ritual 264
sacraments 265
controversy 270
on special subjects see subj.
days lib. econ. 024.42
special cookery 641.566
education 377
of clergy 207
festivals 264
fiction 244
history 270
institutions 260
liberty 261.7
life Great war 940.478
U. S. civ. war 973.778
limitations cookery 641.565
orders, monastic 271
painting art 755
ecclesiology 247.5
poetry 245
sects 280
societies *see* associations
symbolism 246
Remainder sales
books bookselling 655.56
library buying 025.223
Remains paleontology 560
Remedies, legal 347.95
pathology 616
therapeutics 615.5
zootechny 636.0895
Remittent fever pub. helth 614.532
Remonstrants sects 284.9
Remuneration
library economy 023.8
political " 331.2
Renaissance
architecture 724.1
European history 940.21
fine arts 709
religious history 270.5
sculpture 735
Renal
artery anatomy 611.1367

Renal
circulation physiol. 612.4634
diseases 616.61
function pathol. changes 612.466
nervs anatomy 611.8393
veins anatomy 611.1462
Renan, Ernest Fr. essays 844.82
Renard the fox Dut. satire 839.371
Ger. " 837.31
Rendering works air pollu. 614.742
Renewals legis. membership 328.3356
lib. econ. 024.64
[1]Renfrew, Scotland hist. 941.41
[1] co. Ont. " 971.381
Rennet cheesemaking 637.3331
cheese 637.355
cow's milk 637.351
[1]Rensselaer co. N. Y. 974.741
Rent
farm economics 631.113
of state property 336.11
political economy 333
Renting farm systems 631.1154
Rents, pew cleric support 254
Repair of waste
physiol. zoology 591.136
physiology 612.395
ships shipbilding 623.826
Repairs bilding laws 692.9
dom. econ. 643.7
road engin'g 625.76
Repeated stress engin'g 620.11246
Repeaters
duplex telegraf 621.38325
half " 621.38326
simplex " 621.38324
Repeating
election frauds 324.272
rifles small arms 623.4423
Repentance doctrin 234.5
Repetitions, method geod. 526.56
Replevin law 347.95
Reporting journalism 070.42
shorthand 653.046
Reports, law American 345.4
British 346.4
library administra. 025.123
mining 622.009
see also special subject
Repoussé work fine arts 739
roofs 721.56
Representation 324.22
American revolution 973.3114
legislatures 328.334
Representativ gov't pol.sci. 321.8
Reprisal international law 341.3
Reproduction
botany 581.16
embryology 581.3
Reproduction
human embryology 611.013
physiology 612.6
zoology 591.16
embryology 591.3
zootechny 636.0824
Reproductiv power psych. 154
Reptils paleontology 568.1
zoology 598.1
Republic
French history 1st 944.042
2d 944.07
3d 944.08
German history 943.085
political science 321.8
Roman history 937.02
Spanish " 946.08
Republican
institutions 321.8
party, U. S. 329.6
Republicans U. S. history 973.4
" " 973.66
" " 973.7
" " **973.8**
" " **973.911-2**
Republics, Ital. history 945.04
pol. sci. 321.5
Repudiation finance 336.36
Repulsion motors engin'g 621.31366
Repulsiv force astron. 523.17
Required majority legislat'n 328.375
Reredos fixt furniture 729.96
sacred " 247.2
Resaca de la Palma, battle 973.6234
Research
endowment education 378.32
psychic mind and body 130
Rescue from drowning 614.811
of shipwreckt 614.868
Resection surgery 617.94
Resedaceæ botany 583.133
Resemblance
protectiv zoology 591.57
Resen, Peder Dan. misc. 839.883
Reservation of bks lib.econ. 024.66
Reservoirs
irrigation agriculture 631.71
sewerage 628.28
waterworks 628.13

Residence
compensation of teachers 371.164
eligibility legis. bodies 328.331
of readers lib. rules 024.12
requirement for degree 378.241
rooms lib. bldgs 022.69
súffrage qualifications 324.16
Residences architecture 728
official arch. 725.17
Residual calculus 517
Residues
animal fertilizers 631.843
industrial zootechny 636.08557
vegetable fertilizers 631.876
Resignations
legislativ bodies 328.3357
Resins
chemic technology 668.4
fossil economic geol. 553.29
gathering 631.5568
Resistance
boxes elec. engin'g 621.3742
electric, of skin physiol. 612.795
meters elec. engin'g 621.3742
of materials engin'g 620.11
mol. phys. 539.4
water hydraulics 532.58
Resisting medium
descriptiv astron. 523.15
theoretic " 521.44
Resolutions
joint legis. procedure 328.377
Resonators acoustics 534.4
Resorts
bildings hygiene 613.5
helth " 613.12
summer architecture 728.52
Resources
conservation pol. econ. 339
military 355.2
Respiration
animals 591.12
cutaneous physiology 612.793
effect of facial nervs on 612.81973
vagus 612.819912
on blood pressure 612.1461
temperature 612.534
physiology 612.2
Respiratory
exchanges and indirect
calorimetry 612.5123
movements physiology 612.21
organs comp. anat. 591.42
descriptiv anat. 591.72
Respiratory
system anatomy 611.2
diseases of 616.2
drugs acting on 615.72
physiology 612.2
surgery 617.42
Responsibilities
of library executiv 023.43
teachers 371.101
Responsibility
human doct. theol. 233.4
ethics 171
of readers lib. econ. 024.14
Responsiv
choral servis 783.24
readings public worship 264.4
Rest
and sleep hygiene 613.79
cure therapeutics 615.85
laboring classes 331.81
physiology of 612.7662
Restaurants architecture 725.71
cookery 641.572
dom. econ. 647.95
table systems 642.5
Restiaceæ botany 584.83
Restif da la Bretonne, N. E. 843.57
Restiform bodies anat. 611.8182
[1]Restigouche co. N. B. hist. 971.511
Restis anatomy 611.8182
Restitutions lib. econ. 024.87
Restoration
English history 942.066
French " 944.06
of citizenship pol. sci. 323.64
the Jews 296
Restriction
election contributions 324.273
of books lib. econ. 024.67
contagious diseases 614.44
Restrictions
on legislation pol. sci. 328.256
legislators 328.34
Results of
civil war U. S. hist. 973.71
election suffrage 324.26
Great war 940.314
Mex. war U. S. hist. 973.621
revolution " 973.31
Spanish war " 973.891
war of 1812 " 973.521
Resumption
of specie pay't U.S.hist. 973.83
U. S. finance 336.73

Resurrection Christology 232.5
doct. theol. 236.8
Resuscitation of the drownd 614.812
Retail stores architecture 725.21
Retaining walls 624.1
Retardation plant culture 631.545
Reticula spinal cord 611.8226
Reticular tissue histology 611.01824
Reticulum " 611.01824
Retina anatomy 611.843
eye diseases 617.73
physiology 612.843
Retirement from mil. servis 355.114
Retorts, glass prac. chem. 542.231
porcelain " " 542.232
Retrahens muscle anat. 611.7324
Retreats, religious 269
Retribution doct. theol. 237.6
Retroauricular glands 611.4632
Retroperitoneal fossae 611.384
Retropharyngeal glands 611.4636
Retrovaccination cont.dis. 614.4737
Return systems elec. trac. 621.33217
Returns
butter business 637.218
cheese " 637.318
dairy " 637.118
farm finances 631.18
zootechny 636.01818
Reuchlin medieval philos. 189.5
Reunion public order 351.752
[1]Reuss, Germany history 943.28
Revaccination contag. dis. 614.4734
Revaccinization " " 614.4736
Revelation, book of Bible 228
divine 231.6
Revenue
cutters shipbilding 623.826
legislativ power 328.341
state finance 336
Reverberatory furnaces 542.42
Reversible plow 631.3124
Reversionary
payments finance 336.35
insurance 368.31
[2]Reviews, see subject reviewd
Revised
statutes Amer. law 345.2
version Eng. Bible 220.52
New Test. 225.52
Old " 221.52
Revision
of electoral lists 324.241
English Bible 220.52
Revival
Gothic architecture 724.3
Grecian " 724.2
of letters, literary hist. 809
Romanesque arch. 724.8
Revivals
army U. S. civ. war 973.778
music 783.7
religious 269
Reviviscent animals 612.0144611
Revolts
internal relations pol. sci. 323.2
Revolution
American history 973.3
daughters of the 369.136
English, 1688 history 942.068
form of state 321.092
French, 1789 history 944.04
1830 " 944.063
1848 " 944.07
of the earth astronomy 525.35
sons of the 369.134
territorial expansion 320.1269
Revolutionary societies 369.13
Revolutions internal rela. 323.2
Revolvers
manufacture 683
military efficiency 623.4434
Revolving book cases 022.914
cranes engin'g 621.873
harrow 631.3135
Rewards
and punishments theol. 233.4
military 355.13
school 371.53
Reynard the fox Dut. sat. 839.371
Ger. " 837.31
[1]Reynolds co. Mo. history 977.885
Rhaetia ancient history 939.84
[4]Rhaeto-Romansch language 459
Rhamneæ botany 583.275
Rhenish
[1] Bavaria, Germany hist. 943.43
[1] Prussia " " 943.42
Prussian horse 636.143
sheep 636.3334
Rheostats elec. eng. 621.3174
Rhetoric 808
sacred homiletics 251
Rheumatic fever diseases 616.991
Rheumatism " 616.991
Rhine
Confederation 943.06
travel 914.34

Rhinencephalon anat. 611.8133
Rhinoceros zoology 599.7
Rhinology anatomy 611.86
diseases 616.21
physiology 612.86
Rhinoplastic operations 617.95
Rhizophoreæ botany 583.411
Rhizopoda zoology 593.11
[1]**Rhode Island U. S. hist. 974.5**
For military history, see subdivisions of Special campains and Military history under 973.3, 973.7 and 973.89
Rhode Island red fowls 636.584
Rhodes ancient history 939.16
knights of 929.711
1 modern hist. 949.96
scholarships 378.34
[1]Rhodesia, Africa hist. 968.9
Rhodium inorgan. chem. 546.97
Rhododendron botany 583.62
Rhombencephalon, isthmus 611.816
Rhomboid ligament anat. 611.7271
muscles " 611.73113
Rhomboidal sinus " 611.828
[1]Rhône, France history 944.58
Rhône ducks 636.5974
sheep 636.3336
Rhubarb gardening 635.49
[3]Rhymes English prosody 426.6
[3]Rhyming dictionaries, Eng. 426.6
Rynchota insects 595.75
pests 632.75
Rhyolite lithology 552.25
Rhythm
cardiac physiology 612.1722
in reflexes " 612.82932
respiratory " 612.216
Ribaceous fruits 634.72
Ribault, J: discov. of Amer. 973.18
Ribs anatomy 611.712
Rice
cereals agriculture 633.18
corn " 633.178
Richard 1 Eng. history 942.032
2 " " 942.038
3 " " 942.046
of Cornwall, Ger.his. 943.025
Richardson, S: Eng. fic. 823.61
[1]Richelieu co. Que. history 971.451
river, Que. travel 917.145
[1]Richland co. Ill. history 977.377
1 O. " 977.128
1 Wis. " 977.575
[1]Richmond, Ind. hist. 977.263
Va.
For military history, see subdivisions of Special campains under 973.7
1 co. New York hist. 974.726
1 Nova Scotia " 971.696
1 Que. " 971.465
Richter, J: P. F; Ger. fic. 833.62
Rickets diseases 616.996
Riddles amusement 793
popular life 398.6
Rideau lakes, Ont. travel 917.1373
Riding
cultivator 631.3163
habits clothing 646.47
halls and schools arch. 725.88
plow 631.3122
recreations 798
roller 631.3141
school hygiene 371.736
Riel's rebellion 1st Can. hist. 971.051
2d " " 971.054
Rifle
manufacture 683
military engineering 623.442
equipment 355.82
shooting amusement 799
Rifled ordnance mil. eng. 623.42
Rifling mil. engin'g 623.4236
Rigging shipbilding 623.86
Right
ascension, variations of 521.27
hart anatomy 611.123
hereditary legis. bod. 328.3352
lines analytic geometry 516.11
loci in space " 516.31
plane geometry 513.11
of assembly pol. sci. 323.7
petition " 323.8
search internat. law 341
standard of ethics 171
Righteousness pers. relig. 248
Righthandedness 612.76
Rights
and liberties const. law 342
civil, *see* Civil rights
land political economy 333
of aliens pol. sci. 323.67
political science 323
water pol. econ. 333.9
Rigid
dirigibles aeronautics 629.155
suspension bridges 624.53

Rigor mortis physiology 612.742
of muscles physiol. 612.7461
Rima glottidis anat. 611.225
[3]Rimes English prosody 426.6
[3]Riming dictionaries, Eng. 426.6
[1]Rimouski co. Que. history 971.477
Rinderpest veterin. med. 619.2
Ring shell ordnance 623.4515
[1]Ringgold co. Ia. history 977.787
campain U.S.civ.war 973.7359
Ringing agriculture 631.54224
Rings
boiler steam engin'g 621.18453
finger costume 391.7
sacred ornaments 247.6
strength of materials 620.11286
Ringwaldt, B. Ger. poetry 831.45
Ringworm diseases 616.57
Rinks
bicycle architecture 725.86
ethics 175.1
skating architecture 725.86
Rinuccini, O. Ital. dram. 852.52
Rio Grande campain 973.6234
[1]Rio Janeiro history 981
travels 918.1
Rioja, F. de Spanish poetry 861.38
Rios, J. A. de los " misc. 868.52
Riots
internal relations pol. sci. 323.2
law 343
local, see name of place
state control 351.752
Riparian rights pol. econ. 333.9
Ripening
buttermaking 637.2337
plant growth 631.5476
[1]Ripley co. Ind. history 977.214
[1] Mo. " 977.8894
Ripplemarks geology 551.83
Ritchie, A.C.M. Am. dram. 812.31
[1]Ritchie co. W. Va. hist. 975.424
Rites and ceremonies 394.4
Ritual public worship 264
Ritualism 264
Rivadeneyra, Pedro de 868.35
River
boats shipbilding 623.824
crossing sewerage works 628.26
engineering 627
transportation sociology 387
Rivers
engineering 627.1
frontiers pol. sci. 320.1284
Rivers
hydraulics 532.54
physical geografy 551.48
pollution sanit. eng. 628.541
water supply 628.11
[1]Riverside co. Cal. hist. 979.497
Riveted joints mech. eng. 621.884
plumbing 696.4
Riveting tools mech. eng. 621.97
Rivets
mechanical eng. 621.884
plumbing 696.4
strength of materials 620.11287
Ro universal language 408.9
Roaches pests 632.72
Road
bed highway engin'g 625.73
railroad " 625.12
systems highway eng. 625.71
Roadrollers gas engins 621.4382
roadmaking 625.7
steam engins 621.145
Roads
agriculture 631.28
and pavements engin'g 625.7
cable " 625.5
elevated " 625.4
engineering " 625.7
military mil. eng. 623.62
stone engineering 625.86
Roan ducks 636.5974
[1]Roane co. W. Va. history 975.436
Roanoke iland, N. C.
battle U. S. civ. war 973.7324
naval hist. " " 973.752
Roasting cookery 641.71
Robbers biografy 923.41
Robbery criminal law 343
Robert 2 French history 944.021
of Gloucester 821.13
Robin Hood Eng. ballads 821.04
legends 398.2
Robinsonaden Ger. fiction 833.54
Rocaberti, Fra Catalan lit. 849.912
[1]Rochester, N. Y. history 974.789
[1]Rock co. Ill. history 977.339
[1] Wis. " 977.587
Rock
analysis chemistry 543.6
blasting engineering 622.23
carvings archeology 571.73
crystal, *see* Quartz
drills machine tools 621.952
foundations architecture 721.11

Rock
minerals determination 552.81
natural fertilizers 631.851
salt economic geology 553.63
structure lithology 552.82
[1] Rock Island, Ill. history 977.339
Rockets, signal mil. eng. 623.45444
[1]Rockford, Ill. history 977.331
[1]Rockingham co. N. H. hist. 974.26
[1]Rockland co. N. Y. " 974.728
Rocks
cleavage of geology 551.84
conductivity of " 551.14
lithology **552**
polarity in geology 551.84
Rocky mts, U. S. travel 917.8
Canada " 917.12
Rococo
style architecture 724.19
Rodentia zoology 599.3
Rodolph 1 Ger. history 943.026
2 " " 943.034
Rodriguez Rubi, Tomas 862.52
Rods
glass prac. chemistry 542.231
steam locomotiv 621.1341
strength of materials 620.11282
Roig, Jacme Catal. poetry 849.9133
Rojas y Zorrilla, F. de 862.36
Roland
chanson de Fr. poetry 841.11
legends 398.2
Rolando's
fasciculus cord 611.8261
medulla 611.8182
groove cerebrum 611.81312
Roll call
legislativ procedure 328.375
Rollenhagen, G; Ger.poetry 831.46
Roller
bearings mech. eng. 621.822
shelvs 022.46
Rollers engineering 620.11284
farm machinery 631.314
Rolling
bridges engineering 624.85
friction mechanics 531.45
mills **manuf'g plant** **621.77**
metal manuf. 671
stock **electric. eng.** **621.334**
railway " **625.2**
tillage 631.515
Rolls
of honor military 355.1
schools 371.53
pianola lib. economy 025.178
Romagnole swine 636.45
[4]Romaic language 489
[5] literature 889
Roman
architecture 722.7
art 709.37
baths hygiene 613.46
catholic church **282**
catholics **biografy** **922.2**
dominion in Spain 946.01
empire **937.06**
Holy **943**
history, ancient **937**
[1] modern 945.6
inquisition persecutions 272.2
law **349.37**
literature **870**
mythology 292
orders **monastic orders** **271**
of architecture 729.32
republic **history** **937.02**
sculpture 733
supremacy relig. history 270.4
Roman de la Rose Fr.poet. 841.18
du Renard " satire 847.12
[5]**Romance, English** **823**
languages **479**
religious 244
Romances, Los Sp. poetry 861.26
Romanesque
architecture **723.4**
revival **architecture** **724.8**
Romanism 282
Romanos, R. M. de Span.lit. 863.52
Romans, epistle to Bible 227.1
Romans d'aventures
Provençal poetry 849.123
Romantic orchestral music 785.3
piano music 786.43
vocal " 784.3
Romany gipsies 397
Rome
ancient history **937**
church of **282**
missions 266.2
theology 230.2
city, ancient hist. 937.6
[1] modern " 945.6
travels 914.56
Römer, Ole Dan. misc. 839.883

Romish church 282
Romney marsh sheep 636.3215
Rondo piano music 786.41
Ronsard, Pierre de Fr.poet. 841.34
Rood screen fixt furniture 729.96
sacred " 247.2
Roof
gardens dom. economy 645.8
nuclei anatomy 611.81713
of mouth " 611.315
Roofs
architectural design 729.35
construction architec. 721.5
coverings bilding 695
engineering 624.9
Rooms
library, in other bilding 022.37
plans 022.342
school 371.62
special lib. bildings 022.6
Root
crops field 633.4
garden 635.1
harvesting 631.5564
cuttings 631.5356
grafting 631.54141
maggots pests 632.77
suckers 631.5331
washers 631.3626
Roots **edible** 635.1
perfumes 633.815
Rope
hemp mill gearing 621.853
making 677
suspension bridge 624.52
walking entertainment 791
wire mill gearing 621.854
strength of 620.11288
Roquefort cheese 637.3551
Rosa, Salvatore Ital. satire 857.55
Rosaceæ botany 583.37
Rosales " 583.3
[1]Roscommon, Ireland hist. 941.75
[1] co. Mich. " 977.476
Roscommon sheep 636.3219
Rose botany 583.37
culture 716.2
perfume plants 633.811
apple fruits 634.422
Rosemary perfume plants 633.812
Rosenkranz, H. Dan. misc. 839.883
Rosenmüller's organ anat. 611.6676
Rosenstein cattle 636.2452
Roses, wars of Eng. hist. 942.04
Rosetta stone
Egyptian inscriptions 493.117
Greek " 481.7
Rosetti, D. G. Eng. poetry 821.84
G. Ital. " 851.72
Rosicrucians secret soc. 366.4
Rosini, Giovanni Ital. fic. 853.71
Rosminian fathers 271.79
[1]Ross co. O. history 977.182
[1] Scotland hist. 941.16
Rota, Bernardino Ital. poet. 851.42
Rotary
blowers engineering 621.62
converters elec. engin'g 621.31357
engins engin types 621.11296
stationary 621.166
pumps engineering 621.66
spaders 631.3115
Rotation
in offis U. S. history 973.56
of earth 525.35
hevenly bodies 521.15
sun 523.73
physics 531.34
Rotatores muscle anat. 611.73168
Rote teaching education 371.31
Rotgans. L. Dutch poetry 839.3141
Rötheln public helth 614.524
Rotifera zoology 595.1
Rotor
steam turbin design 621.16534
stresses steam turbins 621.16514
Rotten
boros representation 328.3345
[1]Rotterdam history 949.2
travel 914.92
Roucher, J. A. Fr. poetry 841.55
[1]Rouen, Fr, history 944.25
travel 914.425
Rouen ducks 636.5974
Roulette amusements 795
ethics 175.5
Roulettes anal. geom. 516.26
[1]Roumania history 949.8
[4]Roumanian language 459.9
swine 636.474
Roumanille, J. Proven.poet. 849.144
Round
bullets small arms 623.4551
dances amusements 793
ethics 175.3
houses R. R. architec. 725.33
shot ordnance 623.45111
table Arthurian romance 398.2

Round
vocal music 784.1
worms parasit. diseases 616.965
Roundheded borers pests 632.76
Roundheds Eng. history 942.062
Roundup stock farming 636.08111
Rousseau, J. B. Fr. poetry 841.51
J. J. " fiction 843.56
" philos. 194.4
Roussillon swine 636.447
Route canal engineering 626.1
railroad " 625.11
[1]Rouville co. Que. history 971.453
Rovere, A. de Dut. poetry 839.3121
Row markers 631.3314
Rowboats boatbilding 623.829
Rowe, N. English drama 822.55
Rowing sport 797
Rowson, Susanna Am. fic. 813.22
[1]Roxburgh, Scotland hist. 941.47
Roxburghiaceæ botany 584.31
Royal houses heraldry 929.7
lives biografy 923.1
Rubaceous fruits 634.71
Rubarb agriculture 635.49
Rubber dom. econ. 646.181
manufactures 678
Rubble stone foundations 721.1332
Rubefacients therapeutics 615.773
Rubeola diseases 616.916
public helth 614.524
Rubiaceæ botany 583.52
Rubiales " 583.51
Rubidium inorgan. chem. 546.35
Rubies cattle 636.2261
econom. geol. 553.8
manufacture 666.8
Rubrics Anglican ritual 264.032
Rucellai, G. Ital. poetry 851.33
Rückert, F. Ger. poetry 831.74
Rudbeck, Olof Swed. misc. 839.7831
Rudder shipbilding 623.85
Rugosa zoology 593.61
Rugs domestic economy 645.1
library " 022.964
manufactures 677
oriental 745
Ruins antiquities 913
Ruiz, Juan Span. satire 867.1
Rulers biografy 923.1
palaces of architec. 725.17
Rules
committee legis. proc. 327.375
Rules
for readers library econ. 021
staff " " 023.9
legislativ procedure 328.371
of order, parliamentary 328.1
school 371.51
Rum chemic technology 663.5
[1]Rumania history 949.8
travel 914.98
Rumanian swine 636.474
[1]**Rumansh language 459.9**
literature 859.9
Ruminants zoology 599.7
greater agriculture 636.2
small " 636.3
Rumination physiology 612.3275
Rumpless fowls 636.5882
Runeberg, J. L. Swed. poet. 839.7167
Runes 439.6
Anglo-Saxon 429.17
German 437.01
Gothic 439.917
Runic inscriptions 439.617
Runius, Johan Swed. poet. 839.7136
Runners library econ. 023.78
plant culture 631.5332
Running
gear electric cars 621.33347
locomotivs 621.135
railroad engin'g 625.21
horse 636.122
hygiene 613.72
pigeons 636.59613
sewing 646.21
sports 796
Rupert German history 943.027
Rupture of genital tract 618.55
surgery 617.55
Rural
architecture 728
cemeteries 719
economy agriculture 631.1
free delivery postal serv. 383
libraries 027.42
life agriculture 630.1
newspapers 070.236
roads engineering 625.711
schools 379.173
sports 796
water supply 628.7
Rush, Benjamin Am.essays 814.21
[1]Rush co. Ind. history 977.261
Rushes agriculture 633.585
botany 584.9

Ruskin, John Eng. essays 824.86
[1]Russell co. Ont. history 971.385
Russia
administration 354.47
botany 581.947
finance 336.47
geology 554.7
heraldry 929.6
[1] **history** 947
[1] in Asia history 957
maps 912.47
peerage 929.77
schools 379.47
statistics 314.7
titles of honor 929.77
travel 914.7
treaties 341.247
other topics see table 1
Russian
almond 634.552
[1] America, Alaska history 979.8
architecture 723.2
baths architecture 725.73
hygiene 613.46
cattle 636.271
church sects 281.9
horse 636.1271
[4] **language** 491.7
[5] **literature** 891.7
music 781.7
poultry 636.571
sheep 636.371
swine 636.475
Russo-
Japanese war Jap. hist. 952
Rus. " 947.08
Turkish war 1736–92 947.06
1853–56 947.07
1877–78 947.08
Rust, anti-, processes bldg 691.7
fungi 589.225
joints plumbing 696.6
Rut zootechny 636.082451
Rutabaga field crops 633.426
garden " 635.126
Rutaceæ botany 583.23
Rutebeuf French poetry 841.17
Ruth Bible 222.3
[4]**Ruthenian language** 491.79
Ruthenium inorg. chem. 546.96
[1]Rutland co. Eng. history 942.54
[1] Vt. " 974.37
Rydberg, V. Swed. fiction 839.7367
Rydelius, Anders " misc. 839.7834

Rye
cereals 633.14
grass forage crops 633.263
House plot Eng. hist. 942.066
Ryeland sheep 636.3242
Ryswick, peace of treaties 341.24

Saanen goat 636.3939
Saavedra, Fajardo, D. de
Span. miscellany 868.36
Sabbatarians Christ. sect 289.9
Sabbath **263**
schools 268
Sabbatic year librarians 023.664
teachers 371.168
Sabeism philosofy 181.7
Sabellian heresies 273.3
Sabiaceæ botany 583.291
Sabini ancient history 937.4
Sabotage 331.89
[1]Sac cc. Ia. history 977.7424
Saccharomycetes botany 589.91
Saccharose nutrition 612.39614
Saccharum agriculture 633.61
Sacchetti, Franco Ital. fict. 853.21
Saccule anatomy 611.8524
physiology 612.8582
Sachs, Hans Ger. poetry 831.44
Sacral
artery, lateral anat 611.1374
middle " 611.1363
cord " 611.8215
Sacramentals pub. worship 264.9
[1]Sacramento city Cal. hist. 979.454
[1] co. " " 979.453
Sacraments **265**
Anglic. ritual 264.035
Sacred
art **246**
biografy **922**
drama miracle plays 792
religion 244
furniture **247**
history **270**
music **783**
poetry **245**
rhetoric 251
Sacrifice birth customs 392.2
christology 232.4
Sacrifices Bible 220.93
sacraments 265.3
Sacrilege 265.9
Sacrococcygeal joints **611.7217**
Sacroiliac joints 611.7281
Sacrosciatic ligament 611.7281
Sacrum anatomy 611.7117
Sad irons laundry 648.42
Saddle
bags farm transport 631.3732
breaking to zootechny 636.08861
goat 636.3936
Saddle
grafting 631.54134
horses 636.13
Saddlery trade 685
Saddles agriculture 631.373
Sadi-Carnot French hist. 944.08
Saengerbund music festival 784.5
Safe deposit bldgs archit. 725.24
storage " 725.35
Safes manufactures 672
Safety
devices elec. line 621.3198
station 621.3178
elevators 621.87785
ordnance 623.4243
steam locom. 621.139
turbins 621.16535
telefone station 621.38794
terminal 621.38694
telegraf 621.38328
lamps min. engin'g 622.47
valvs locomot. boiler 621.1339
steam " 621.18473
piping 621.1854
[1]Sagadahoc co. Me. hist. 974.18
Sagas, Norse 839.6
Sage cheese 637.3542
garden crops 635.71
foundation 306
[1]Saginaw city, Mich. hist. 977.446
[1] co. " " 977.446
Sago chemic technology 664.2
[1]Saguenay co. Que. history 971.417
[1]Sahara desert history 966.1
phys. geog. 551.58
Sailing directions 656
great circle navig. 527.5
vessels, early **623.821**
modern **623.822**
Sailmaking trade 689
Sailors biografy 926.56
suffrage 324.177
Sails ship outfit 623.86
Sainfoin 633.361
Saint
Albans raid U. S. hist. 973.722
Vt. " 974.3
Amant, M. A. G. Fr.satire 847.42
Bartholomew massacre 272.4
Bernard, hospice of
protection of life 614.87
[1] Catherines city, Ont. hist. 971.351
[1] Charles co. Mo. history 977.839

Saint
[1] Clair co. Ill. history 977.389
[1] Mich. " 977.441
[1] Mo. " 977.8466
Clair's exped. U. S. hist. 973.42
[1] Croix co. Wis. history 977.541
Evremond Fr. essays 844.42
[1] François co. Mo. history 977.868
[1] Helena history 997
[1] Hyacinthe co. Que. hist. 971.452
[1] John city, N. B. " 971.532
[1] co. " " 971.532
lake, Que. travel 917.1414
of Jerusal. knights of 929.711
John's bread 634.462
[1] co. Que. history 971.438
[1] Joseph co. Ind. history 977.289
[1] Mich. " 977.419
[1] Mo. " 977.8131
[1] Lawrence co. N.Y. " 974.756
[1] river, Que. " 971.4
[1] Louis city, Mo. " 977.866
travel 917.7866
[1] co. Mo. history 977.865
Marc Girardin Fr. essays 844.75
[1] Mary co. Md. history 975.241
[1] Maurice co. Que. " 971.445
Petersburg, Russia " 947.4
trav. 914.74
Pierre, J. H. B. de Fr.fic. 843.61
Simonism socialism 335.2
[1] Thomas city, Ont. hist. 971.335
Vitus' dance diseases 616.851
Sainte Beuve, C. A. Fr. lit. 844.74
[1] Genevieve co. Mo. hist. 977.869
Saintonge sheep 636.3427
Saints
apostolic lives of 225.92
days labor holidays 331.817
doctrin 235
in art ecclesiology 246
painting 755
Latter day biografy 922.98
doctrin 298
lives of 922
Salads cookery 641.83
garden crops 635.5
see also special names
Salamanders batrachia 597.9
Salaries legislatures 328.333
library servis 023.8
of teachers 371.16
pol. econ. 331.2
Salary loans 332.313
payments lib. fin. 025.115
Sale catalogs of books 017–019
stock 636.08188
of duplicates lib.econ. 025.265
milk 637.135
state prop. finance 336.12
[1]Salem city, N. J. history 974.992
[1] co. " " 974.991
Salernitano, M. Ital. fict. 853.31
[1]Salerno, Italy history 945.74
Salesmen's occupation hyg. 613.65
Salic laws Ger. law 349.432
Salicin nutrition 612.39(175
Salicineæ botany 583.98
Salicylates therapeutics 615.75
Salicylic acid org. chem. 547.76
disinfec. cont.dis. 614.486
Salin
substances in urin 612.4616
waters econ. geology 553.72
[1]Saline co. Ill. history 977.3992
[1] Mo. " 977.847
Salins cathartics 615.7322
Saliva physiology 612.313
therapeutics 615.741
Salivary
glands anatomy 611.316
physiology 612.313
nucleus anatomy 611.81768
secretion physiol. zool. 591.143
Salivation physiology 612.81977
Salles d'asile 372.944
Sallust Latin literature 878.2
Salmon fishes 597.5
fishing amusem't 799
business 639.2
Salomon and Morolf Ger.sat. 837.22
Saloon furnishings ships 623.86
Saloons architecture 725.72
billiard " 725.84
temperance 178.4
[1]Salop, England history 942.45
Salsify 635.16
Salt
baths hygiene 613.45
prac. chem. 542.46
feeding zootechny 636.08431
food zootechny 636.0877
foods hygiene 613.28
lithology 552.53
manufacture 664.4
mining 622.36
rock economic geology 553.63

Salting buttermaking 637.2335
Saltpeter mineralogy 549.72
Salts
absorption physiology 612.3821
chemic technology 661.4
chemistry of food 641.17
in muscle physiology 612.74416
mesology 612.014463
nutrition physiology 612.39261
of ammonia chem. tech. 661.5
stomach absorption of 612.32275
theoretic chemistry 541.4
Saluste du Bartas, G. de
French poetry 841.37
Salvadoraceæ botany 583.716
Salvage maritime law 347.7
Salvation doctr. theology 234
army ass'ns 267.15
Great war 940.4772
Salviati, L. Ital. essays 854.45
[1]Salzburg, Austria hist. 943.63
Samaniego, F. M. de 861.44
[4]Samaritan language 492.5
Samaritans sects 296
Samarium inorg. chem. 546.692
Samfire agriculture 635.74
Samnite wars Roman hist. 937.03
Samnium ancient " 937.7
[1]Samoa, Polynesia " 996.1
Samos ancient " 939.14
[1] modern " 949.94
Samphire 635.74
Samsöe, O. J. Dan. drama 839.8253
Samuel Old Testament 222.4
Samydaceæ botany 583.451
San Antonio, battle 973.6238
[1] Benito co. Cal. hist. 979.475
[1] Bernardino co. " " 979.495
[1] Clemente il. " " 979.493
[1] Diego city " " 979.498
[1] co. " " 979.498
Domingo, annex. treaty
U. S. history 973.82
apricot 634.654
[1] Francisco city Cal. " 979.461
[1] co. " " 979.461
[1] Joaquin co. " " 979.455
[1] José city " " 979.474
scale pests 632.75
Juan boundary U.S. " 973.82
[1] Luis Obispo co. Cal. " 979.478
[1] Potosi, Mex. " 972.4
[1] Mateo co. Cal. " 979.469
[1] Miguel il. " " 979.491
[1]San Nicholas il. " " 979.492
[1] Salvador " 972.84
Sancho 4 Span. miscel. 868.12
Sanctification doctr.theol. 234.8
Sanctis, F de Ital. essays 854.81
Sanctuary legal antiq. 340.3
Sanctus sacred music 783.22
Sand, George Fr. fiction 843.82
Sand
baths prac. chemistry 542.45
blasts pneumatic mach. 621.549
cherry 634.24
filtration water supply 628.16
foundation architec. 721.11
petrology lithology 552.51
piles architecture 721.141
storms 551.51
Sandals costume 391.4
Sandalwood perfumes 633.814
Sandbugs zoology 595.36
Sandemanianism sects 289.9
Sander, K. L. Dan. drama 839.8256
Sands econ. geology 553.62
Sandstone " " 553.53
lithology 552.51
old red 551.74
[1]Sandusky city, O. hist. 977.1221
[1] co. " " 977.1214
[1]Sandwich ilands history 996.9
Sandwiches cookery 641.84
Sandys, George Am. poet. 811.11
[1]Sangamon co. Ill. history 977.356
Sangreal legends 398.2
Sanguification physiology 612.119
Sanhedrim Judaism 296
[1]Sanilac, Mich. history 977.443
Sanitariums helth resorts 613.12
institutions 362.1
Sanitary
affairs public helth 614
appliances hygiene 613.08
pub. helth 614.08
commission U. S. civ. war 973.7771
commissions local gov't 352.4
U. S. 361
districts Eng. loc. gov. 352.0425
engineering 628
fairs U. S. civil war 973.7772
inspection of schools 371.711
laws public helth 614.09
mesures dom. econ. 648
public helth 614.09
police administration 351.77
reports public helth 614.09

Sanitary
science engineering 628
surveys public helth 614.77
Sanitation
industrial engineering 628.5
military 623.75
of house dom. econ. 648.5
towns engineering 628.4
principles of " 628
public 614
school bildings 371.626
veterinary, pub. helth 614.9
Sannazzaro, J. Ital. poetry 851.26
[4]**Sanskrit language 491.2**
[5] **literature 891.2**
Santa
[1] Barbara co. Cal. hist. 979.491
[1] il. " " 979.491
[1] Catalina il. " " 979.493
[1] Clara co. " " 979.473
[1] Cruz co. " " 979.471
[1] il. " " 979.491
[1] Rosa il. " " 979.491
Santalaceæ botany 583.943
Santiago
[1] Chile history 983
travel 918.3
Cuba, siege U. S. hist. 973.893
de Cuba, soc'ty of army of 369.182
[1]Santo Domingo history 972.93
Santorini's duct anatomy 611.375
muscle " 611.7326
[1]Saône et Loire, Fr. hist. 944.43
Sap, circulation of botany 581.11
collectors 631.3568
gathering 631.5568
Saphenous
nerv, internal anat. 611.83554
vein, long " 611.14733
short " 611.14738
Sapindaceæ botany 583.281
Sapindales " 583.28
Sapodilla agriculture 634.431
family " 634.43
Saponin nutrition 612.396175
Sapota 634.343
Sapotaceæ botany 583.681
Sapotaceous fruits 634.43
Sappers mil. science 358.3
Sappho Greek poetry 884.2
Saprolegnieæ botany 589.26
Saps military engineering 623.24
[1]**Saracen empire history 953**
Saracenic architecture 723.3
Saratoga battle Am. revol. 973.3333
[1] co. N. Y. history 974.748
Sarcoma diseases 616.992
Sarcophagi burial customs 393.1
Sardinia ancient history 937.9
[1] modern " 945.9
Sardinian sheep 636.35
Sardou, Victorien Fr. dram. 842.86
Sarmatia Asiatica anc. hist. 939.52
Europa " " 939.81
Sarpi, Paolo Ital. essays 843.51
Sarraceniaceæ botany 585.121
[1]Sarthe, France history 944.17
Sartorius muscle anat. 611.73821
Sash arch. construction 721.83
[1]Saskatchewan, Can. hist. 971.24
Sassacus, ship U.S.civ.war 973.754
Sassafras 633.824
Sassanian architecture 722.5
Sassanians ancient history 935.7
Satan doctrinal theology 235
Satanism " " 235
witchcraft 133.4
Satellites
action of astronomy 521.42
theoretic " 521.6
[5] **Satire Eng. literature 827**
Satires, religious 244
Satiric music, dramatic 782.6
Satirists, English lives 928.27
Saturn astronomy 523.46
Satyre Ménippée,La Fr. sat. 847.33
[1]Sauk co. Wis. history 977.576
[1]Sault Ste Marie, Ont. hist. 971.313
Saurians 598.1
Sauropterygia reptils 598.16
Sautering cookery 641.77
Savages ethnology 572.7
Savannah, Ga.
campain U. S. civ. war 973.7378
capture Amer. revol. 973.3347
[1] history 975.8
siege Amer. revol. 973.3357
travels 917.58
Savings banks
architecture 725.24
political economy 332.2
school education 371.673
state control 351.825
Savory agriculture 635.71
Savoy
declaration doct. theol. 238.5
[1] France history 944.48
house of Ital. history 945

Saw mills 674
Sawflies pests 632.79
Saws
machine tools engin'g 621.93
pruning 631.3426
[1]Sawyer co. Wis. history 977.516
Saxe, J: G. Am. satire 817.35
[1]Saxe-Altenburg, Ger. hist. 943.24
[1] Gotha-Coburg " " 943.25
[1] Meiningen " " 943.26
[1] Weimar " " 943.23
Saxhorn wind instrument 788.42
Saxifrageæ botany 583.38
Saxo Grammaticus Dan. lit 839.8811
Saxon
[4] Anglo- language 429
literature 829
goat 636.393
[4] old language 439.2
literature 839.2
Romanesque architec. 723.42
sheep 636.36733
[1]Saxony history 943.21
house of, Ger.hist. 943.022
[1] Prussian " " 943.18
Saxophone wind instrum. 788.43
Saybrook platform creeds 238.5
Scabs labor strikes 331.891
Scagliola masonry 693.64
Scala media anatomy 611.8521
Scalds surgery 617.11
Scale
contract wages 331.22
insects pests 632.75
prevention, boiler 621.1944
Scalenus anatomy 611.7339
Scales
comparativ anatomy 611.785
mesuring instruments 530.8
music 781.2
practical chemistry 542.32
track railway engin'g 625.18
wage political economy 331.22
watch and instrum. mak'g 681
weights and mesures 389
Scallion 635.263
Scallop fishery 639.4
squash 635.621
Scalping war customs 399
Scalvies diseases 616.9685
public helth 614.55
Scaly affections of skin 616.51
Scandal ethics 177.2
Scandaroons pigeons 636.59627
Scandinavia heraldry 929.6
[1] **history 948**
peerage 929.78
Scandinavian
[4] language 439.5
[5] literature 839.5
philosofers 198
lives 921.8
protestants 284.7
sheep 636.372
Scandium inorgan. chem. 546.69
Scansores birds 598.7
Scaphoid
bone, carpal anatomy 611.71771
tarsal " 611.71876
cuboid joints " 611.72856
cuneiform joints " 611.72856
Scaphopoda zoology 594.2
Scapula anatomy 611.7171
Scapular artery, dorsal anat 611.1348
Scapuloclavicular joint 611.72724
Scarecrows agriculture 632.9
Scarf skin anatomy 611.771
Scarfs, hed toilet 646.55
Scarifier, hand 631.3153
horse 631.3162
Scarlatina diseases 616.917
Scarlet fever pathology 616.917
pub. helth 614.522
strawberry 634.754
Scarron, Paul Fr. satire 847.43
Scavenging of towns 628.4
Scene painting painting 750
theater 792
Scent glands
comparativ physiol. 612.493
economic zoology 591.66
physiologic " 591.144
protectiv organs 591.57
Scepticism, etc. *see* Skepticism
Schedules
tarif finance 336.26
Scheele, K: V. Swed. misc. 839.7848
Schefer, L. Ger. poetry 831.81
Scheffel, J. V: von Ger. fic. 833.83
Schelling Ger. philosofy 193.4
[1]Schenectady, N. Y. hist. 974.744
Scherzo orchestral music 785.1
Schiller, J; C. F; Ger. dram. 832.63
Schimmel, H.J. Dut. " 839.3253
Schism
Avignon 270.5
Eastern & Western ch. 270.3
in the church eccles. pol. 262.8

Schists lithology 552.43
Schizomycetes botany 589.95
Schleiermacher Ger. phil. 193.6
Schlemm's canal anat. 611.8415
Schleswig horse 636.143
[1]Schleswig-Holstein, Ger. hist. 943.51
Holstein swine 636.434
[1]Schoharie co. N. Y. hist. 974.745
Scholars citizenship 323.65
Scholar's life self-culture 374
Scholarships
research 378.34
school tuition 371.22
Scholastic philosofers' lives 921.9
philosofy 189.4
Schöning, G. Dan. misc. 839.8844
School
architecture 727
bildings education 371.62
board room lib. bldgs 022.612
city student gov't 371.595
districts Eng. loc. gov. 352.0426
equipment 371.6
funds state education 379.11
furniture 371.63
gardens elem. educ. 372.36
grounds 371.61
hygiene 371.7
libraries education 371.64
library econ. 027.8
lunch rooms 642.58
meals school hygiene 371.716
premises 371.6
promenades school hyg. 371.737
savings banks 371.673
texts Eng. language 428
Y. M. C. A. work 267.361
[1]Schoolcraft co. Mich. hist. 977.493
Schools
agricultural 630.712
and libraries lib. econ. 021.3
architecture 727
education 370
hygiene 613.54
library propagandism 021.75
training 020.7
of painting 759
parochial education 377.5
parish work 257
public 379
reform 364
architecture 725.64
riding " 725.88
Schools
special curriculums 375.008
higher educ. 378.99
Sunday 268
[2] see special subject
Schopenhauer Ger. philos. 193.7
[1]Schuyler co. Ill. history 977.347
[1] Mo. " 977.826
[1] N. Y. " 974.781
Ft Amer. revol. 973.3334
[1]Schuylkill co. Pa. history 974.817
Schwann's sheath histol. 611.018833
[1]Schwartzburg, Ger. hist. 943.27
Schwarzhals goat 633.3936
Schwarztal " 636.3936
Schwarzwald " 636.393
Sciatic artery anat. 611.13765
Sciatica diseases 616.87
Science
and religion apologetics 239.8
nat. theol. 215
applied 600
Bible 220.85
biografy of 925
elementary education 372.3
mental 150
military 355
moral 170
natural 500
naval 359
of religion 201
political 320
sanitary 628
social sociology 300
study teaching 507
Sciences, classification of 501
natural 500
occult 133
Scientific
bildings architecture 727
explorations, general 508.3
management business 658
men, lives of 925
surveys, general 508.3
systems economics 330.15
travels 508.3
Scientists, apologetics ag'st 239.8
[1]Scilly Islands history 942.37
travel 914.237
Scion grafting 631.5411
Sciopticon optics 535.86
[1]Scioto co. O. history 977.187
Scitamineæ botany 584.21

Sclera anatomy 611.8415
physiology 612.8415
Sclerotic coat anatomy 611.8415
eye diseases 617.71
Scollop fishery 639.4
Scolymus 635.167
Sconces domestic econ. 644.325
Scoops, water steam locom. 621.1363
Scooter cultivators 631.3127
" plows 631.3162
Scope and usefulness of lib. 021
Scoria volcanic rocks 552.21
Scorpions zoology 595.4
Scorzonera 635.166
Scotch
[1] **border history 941.4**
travel 914.14
episcopal church 283.41
poetry 821
cattle, beef 636.223
dairy 636.225
churches, presbyterian 285
covenant creeds 238.5
deists apologetics 239.5
English dialects 427.9
episcopal church 283.41
gray fowls 636.527
[4] **language 491.63**
music, vocal 784.4
philosofers biografy 921.2
philosofy 192
poetry 821
ponies 636.162
poultry 636.528
presbyterians biografy 922.541
Romanesque architecture 723.41
sheep 636.325
Scotland
administration 354.41
antiquities 913.41
architecture 720.941
botany 581.941
colleges 378.41
constitutional law 342.41
education 370.941
finance 336.41
geology 554.1
[1] **history 941**
laws 349.41
maps 912.41
religious history 274.1
schools, public 379.41
statistics 314.1
travel 914.1
Scotland
treaties 341.241
universities 378.41
zoology 591.941
[1]Scotland co. Mo. history 977.831
Scott
Dred, case U. S. civ. war 973.7115
decision slavery 326.973
U.S.hist. 973.68
Walter Eng. fiction 823.73
poetry 821.74
[1]Scott co. Ill. history 977.345
[1] Ind. " 977.218
[1] Ia. " 977.769
[1] Mo. " 977.897
Scott-Brown shorthand 653.53
Scottish, *see* Scotch
Scott's campain Mex. war 973.6236
Scotus, Duns mediev. phil. 189.4
Erigena " " 189.4
Scovil shorthand 653.37
Scows boatbilding 623.829
[1]Scranton, Pa. history 974.837
Scrap
book methods 029.3
books general collec. 040
for special see subject
Scrape horse cultivators 631.3164
Scraper hand tools 631.3153
Scrapers, pruning 631.3427
Scraping pruning 631.54215
Screen doors arch. constr. 721.83
Screening min. engin'g 622.74
Screens
architectural construc. 721.87
domestic economy 645.3
fixt furniture 729.96
food 648.7
Screw
brakes gun mounts 623.43562
cutting mech. engin'g 621.882
gears " " 621.8333
jacks " " 621.869
joints plumbing 696.5
physics 531.87
pile foundations 721.152
propellers engineering 621.12
shipbilding 623.87
strength of materials 620.11287
threds mech. engin'g 621.882
Screws fastenings 621.882
Scribe, A. E. Fr. drama 842.73
Script writing 652

Scriptural biografy Bible 220.92
N. T. 225.92
O. T. 221.92
Scripture
chronologies 220.94
commentaries 220.7
concordances 220.2
dictionaries 220.3
harmonies of gospels 226.1
histories 220.95
readings public worship 264.3
Scriptures, holy Bible 220
Scriveboard shipbilding 623.83
Scrofula diseases 616.996
Scroll-sawing 749
Scrophularineæ botany 583.81
Scrotum anatomy 611.638
diseases of 616.67
Scrutin
d'arrondissement suffrage 324.221
de liste " 324.222
Scudéry, G. de Fr. fiction 843.44
M. de " " 843.45
Scuffle harrow 631.3137
hoe 631.3152
Scuffler horse cultivators 631.3162
Sculptors biografy 927.3
Sculpture 730
prehistoric 571.73
sacred ornamentation 247.3
school decoration 371.637
Scurvy diseases 616.39
Scutage feudalism 321.3
Scythe, *see* Sithe
Scythia ancient history 939.51
Scythian language 494
Sea
anemones zoology 593.6
aqueous erosion 551.35
baths hygiene 613.45
cow 599.5
cucumbers zoology 593.96
fishery business 639.2
food fishery 639
grape agriculture 634.664
grapes zoology 594.9
kale 635.33
beet 635.42
laws 347.7
lilies zoology 593.91
mats " 594.7
mosses algae 589.3
power 359
serpent delusions 133.7
Sea
shore resorts hygiene 613.12
urchins fishery 639.6
paleontology 563.95
zoology 593.95
walls engineering 627.4
weeds botany 589.3
fertilizers 631.873
Seal engraving 736
fishing 639.1
Seals college 378.27
heraldry 929.8
zoology 599.7
Seamanship 656
Seamen's lives 926.56
Search
light elec. engineering 621.32582
military " 623.731
right of internat. law 341.3
Seashore resorts hygiene 613.12
Seasickness diseases 616.33
physiology 612.8862
Seaside cottages architec. 728.7
resorts hygiene 613.12
Season
grafting 631.5412
vacation lib. econ. 023.661
Seasoning leaves 635.71
Seasons astronomy 525.5
hygiene 613.13
zoology 591.54
Seating capacity architec. 729.2
Seats
aviation 629.182
ballooning 629.162
country architecture 728.8
Seaweeds botany 589.3
fertilizers 631.873
Sebaceous
glands anatomy 611.773
disorders of 616.53
secretion animals 591.141
[1]Sebastopol, Russia hist. 947.7
goose poultry 636.5987
Sebright game fowls 636.58813
Secession
church of Scotland 285.6
law 342
U. S. history 973.7
Secessionists in North
U. S. civil war 973.718
Second
advent of Christ 232.6
adventists sects 286.6

Second
ballot suffrage 324.248
empire Fr. history 944.07
language elem. educ. 372.65
nerv anatomy 611.8312
physiology 612.8192
sight 133.3
war with Eng. U.S.hist. 973.52
Gt. Brit., soc. of 369.144
Secondary
batteries electricity 537.84
cells elec. engineering 621.354
period geology 551.76
schools for girls 376.63
gymnastics in 371.7323
library equipm't 371.646
manual train'g in 371.423
public 379.17
Secret
ballot suffrage 324.245
servis Amer. revol. 973.385
Great war 940.485
U. S. civ. war 973.785
war of 1812 973.528
societies 366
bildings arch. 728.4
college 371.85
writing cryptografy 652
Secretaries
legislativ bodies 328.3623
Secretion
animals 591.14
intestinal
action of nervs on 612.3381
pathologic changes 612.336
physiology 612.333
lactic physiology 612.6643
of liver " 612.35
physiology 612.4
Secretory organs
animals comp. anat. 591.44
descriptiv anat. 591.74
Sectarian
schools, public aid to 379.121
teaching in schools 377.1
Sects, Christian 280
Secular changes of season 525.53
education 377
Sédaine, M. J: Fr. drama 842.57
[1]Sedalia, Mo. history 977.8481
Sedentary life hygiene 613.65
Sedges fibers 633.585
Sedimentary rocks lithol. 552.5
Sedition law 343
act U. S. history 973.44
See eccles. polity 262.3
Seed
catalogs 631.5212
selection 631.5211
sowers 631.331
Seedage 631.531
Seeders 631.3311
Seeding machinery 631.33
plow 631.3127
Seedling plant culture 631.5471
Seeds
edible 635.6
Segment shell ordnance 623.4515
Segmentation embryology 611.01331
Segregation geol. agents 551.98
vs coeducation 376.7
Segura de Astorga, J.L. 861.14
Seigniories, abol'n Can. hist. 971.4
[1]Seine et Marne, Fr. hist. 944.37
[1] Oise, " " 944.36
[1] Inférieure, " " 944.25
Seismology 551.2
Selachii fishes 597.3
Selagineæ botany 583.876
Selecting lib. books, meth.of 025.215
animals zootech. 636.0811
Selection
natural evolution 575.4
physiology 612.609
of books, etc. lib. econ. 025.21
candidates suffrage 324.23
farm 631.11
offisers civil servis 351.1
library trustees 023.31
manuscripts publish. 655.51
plants 631.521
sexual evolution 575.5
zootechny 636.081
[3]Selections Eng. philology 428.7
Selectiv system telefone 621.38524
Selenids mineralogy 549.3
Selenium inorganic chem. 546.23
Self
binders 631.3541
culture 374
defense, art of athletics 796
education 374
government pol. sci. 321.8
school 371.59
Selfishness ethics 179.8
[1]Selkirk, Scotland history 941.46

Selling
  products farm econ. 631.18
  votes suffrage 324.271
Sem Tob, Rabbi Span. lit. 861.16
Sematology philology 419.1
Semiautomatic telefones 621.38572
Semicircular canals anat. 611.8526
Semidetacht city houses 728.34
Semidiameter
  of celestial bodies 522.93
Semilunar
  bones, carpal anatomy 611.71772
  ganglion, cranial " 611.8915
  ganglions, symp. " 611.8393
  valvs " 611.12656
Semimembranosus muscle 611.73829
Seminal vesicles anatomy 611.636
Seminar room lib. bildings 022.653
Seminaries
  architecture 727.2
  education 373
  theologic religion 207
[2] for special topic see subject
Seminary method of instruc. 371.37
Seminiferous ducts anat. 611.6311
  physiol. 612.617
Seminole wars, U. S. history
  1818 973.541
  1835–42 973.571
Semirigid dirigibles 629.156
Semisoveren states pol. sci. 321.025
Semispinalis muscle 611.73161
Semistationary engins 621.159
Semitendinosus muscle 611.73828
Semitic languages 492
  literatures 892
Senancour, E. P. de Fr. lit. 844.64
Seneca, L. A. Latin drama 872.6
  misc. 878.5
  stoic phil. 188.6
[1]Seneca co. N. Y. history 974.769
[1] O. " 977.124
  indians 970.3
[1]Senegambia history 966.3
[1]Sennaar, Egypt " 962.9
  swine agriculture 636.486
Sensation
  beginnings of biology 576.4
  in animals zoology 591.18
  plants botany 581.18
  mental faculties 152
  physiologic psychology 612.8218
Sensational journalism 070.16
Sensationalism 145
Sense mental faculties 152
  physiology 612.8218
Sensibility
  and movement physiol. 612.8114
  chromatic " 612.8433
  cutaneous physiol. 612.794
  mental faculties 157
  physiologic psychology 612.82133
  recurrent physiology 612.812
  to pain " 612.884
  sound " 612.85876
Sensitiv plant botany 583.32
  physiol. bot. 581.5
Sensory
  and motor nervs, distinc. 612.811
  apparatus anatomy 611.8
  delusions physiology 612.82189
  ganglions " 612.8113
  terminations histology 611.018869
[3]Sentences, special Eng. 425.4
Sentimental music 784.3
Separate system of sewerage 628.212
Separates lib. economy 025.232
Separation
  of cream 637.2331
  powers English gov. 354.4202
  French " 354.4402
  German " 354.4302
  U. S. " 353.02
Separators
  cream dairy 637.2321
  steam engineering 621.1974
Sepia paint 751
Sepoy war, Indian history 954
Septic diseases 616.94
Septicemia diseases 616.944
  obstetrics 618.74
Septuagint Bible 221.48
Septum lucidum anatomy 611.81324
Sepulchers cemeteries 718
Sepulture customs 393.1
  public helth 614.61
Sequence cathedral servis 783.23
Serafi Catalan poetry 849.9135
Serao, Matilde Ital. fict. 853.88
Serapis, ship Amer. revol. 973.355
[1]Serbia history 949.7
[4]Serbian language 491.82
  swine 636.472
Serfs
  emancipation Russ. hist. 947.08
  origin of " " 947.04
  slavery 326.3
  social classes 323.34

Sergardi, Ludovico Ital.sat. 857.57
Sergeants
-at-arms legislativ bodies 328.3624
law lives 923.442
Serials library admin. 025.173
special, see subject
Sericeous secretion zoology 591.142
Sericulture 638.2
Series
algebra 512.4
calculus 517.21
motors elec. engin'g 621.31365
system telefone 621.38522
trigonometry 514.2
wound generators 621.313232
Sermons
Great war 1914–19 940.495
homiletics **252**
public worship 264.6
U. S. history civil war 973.795
revolution 973.395
war of 1812 973.5295
Serotherapy
for venoms physiol. 612.3145
therapeutics 615.37
Serous
membranes
absorption by 612.387
admin. of medicin by 615.66
histology 611.01874
Serpent charming 591.57
worship 291
Serpentine
economic geology 553.55
layering 631.5342
lithology 552.47
Serpents zoology 598.12
Serrati posteriores anat. 611.7312
Serratus anterior " 611.7355
posticus " 611.7312
Serum
staining substances 612.1251
Servants
domestic economy **647.2**
ethics 173.8
law 347.6
quarters architecture 728.92
dom. economy 645.69
Servetus medieval phil. 189.5
[1]Servia history 949.7
[4]Servian language **491.82**
Serving
at table dom. economy 642.6
room " " 643.45
Servis
amount of teachers **371.16**
apparatus elec. light. **621.328**
books Anglican ritual **264.03**
clerical lib. economy **023.76**
emergency dom. econ. 647.29
library **023**
mechanic lib. economy **023.77**
military science **355.5**
suffrage 324.171
periods, military 355.11
professional bilding 692.8
table dom. economy 642.6
Servitude, military 355.22
slavery **326**
Sesamoid bones, foot 611.71899
hand 611.71799
Session laws, American **345.1**
English 346.1
Sessions
legislativ bodies 329.35
special legis. salaries 328.333
Sestini, B. Ital. poetry 851.68
Setons therapeutics 615.812
Sets tubers 631.5322
Settees dom. econ. 645.42
Setting table " " 642 6
type printing 655.25
Settlements, social 331.85
Seven
champions 398.2
day books lib. econ. 024.62
days battles U. S. hist. 973.7327
Pines, Va. battle 973.7327
sages 398.2
sleepers 398.2
weeks war German hist. 943.081
wonders of the world 609
years war Canadian hist. 971.018
German " 943.056
U. S. " 973.26
Seventh
day adventists biog. 922.6
sects 286.7
baptists " 286.3
Sabbath 263.2
nerv anatomy **611.8317**
physiology **612.8197**
[1]Seville history 946.8
travels 914.68
Sewage, disposal of **628.3**
Sewer gas air pollution 614.765
sanitary engin'g **628.23**

Sewerage
city administration 352.6
engineering 628.2
systems 628.21
Sewers
and outlets air pollut. 614.765
disinfection pub. helth 614.48
Sewing
domestic economy 646.2
element'y manual train'g 372.54
machine 687
Sex
customs 392
in education 376
nature 577.8
influence of therapeutics 615.55
mortality pub. helth 614.141
origin of evolution 575.9
production of embryol. 591.36
Sexes mental characterist. 136.1
proportion physiol. 612.606
zootechny 636.0823
Sextant
astronomic instrument 522.41
finding time by horology 529.74
Sexual
ethics 176
excitement zootechny 636.082451
organs anatomy 611.6
zoology 591.46
science 612.6
selection evolution 575.5
union zootechny 636.082453
variation animals 591.156
Shaddock 634.323
Shade and light arch.design 729.14
Shades
and shadows descr.geom. 515.7
window furnishings 645.3
Shading shorthand 653.01
Shadows perspectiv 515.63
Shaft sinking mining 622.25
Shafting mill work 621.82
Shaftsbury, earl of Eng. lit. 824.51
Shagbark 634.522
Shakers biografy 922.88
sects 289.8
Shaking grates engin'g 621.18354
Shakspere Eng. drama 822.33
Shale lithology 552.52
Shallot 635.263
Shallu 633.176
[1]Shanghai history 951.1
travels 915.11
Shanghai fowls 636.585
[1]Shannon co. Mo. history 977.887
ship U. S. war 1812 973.5253
Shapers machine tools 621.912
Shapes strength of mater. 620.1128
Share
system of rent agric. 631.114
working " 631.1153
Shares remuneration 331.235
stocks 332.6
Sharks fishes 597.3
fossils 567.3
Sharpsburg, Md. battle 973.7336
[1]Shasta co. Cal. hist. 979.424
Shaving customs 391.5
toilet 646.5
Shaw, H: W. Am. humor 817.46
[1]Shawano co. Wis. history 977.536
Shawl goat 636.39854
Shawls clothing 646.45
Shay's rebellion Mass. hist. 974.4
U.S. " 973.318
Shearing
strength of materials 620.11245
tools mech. engineering 621.96
Shears machine tools 621.932
pruning 631.3421
weeding 631.3155
Sheaths of tendons anat. 611.75
diseases 616.76
Sheaves mill gearing 621.856
[1]Sheawasse co. Mich. hist. 977.425
[1]Sheboygan co. Wis. " 977.566
Sheds aeronautics 629.144
Sheep
diseases of compar.med. 619.3
domestic animals 636.3
hunting 799
zoology 599.7
Sheepsmilk cheese 637.3551
[1]Sheffield history 942.74
[1]Shefford co. Que. history 971.463
Shel
banks prehist. archeol. 571.93
boiler steam engin'g 621.18452
fish fishery 639.4
zoology 594
locomotiv boiler 621.1333
Shelbark hickory 634.523
[1]Shelburne co. N. S. history 971.625
[1]Shelby co. Ill. history 977.3798
[1] Ind. " 977.259
[1] Ia. " 977.748

[1]Shelby co. Mo. " 977.832
[1] O. " 977.145
Shelf dep't library econ. 025.8
Shellers 631.3614
Shelley, P. B. Eng. poetry 821.77
Shelling corn 631.5614
Shels
armor piercing ordnance 623.4518
elongated " **623.4513**
paleontology **564**
prehistoric archeology 571.13
projectils **623.45**
zoology **594**
Shelter
domestic economy **643**
of animals zootechny 636.0831
laboring classes
pol. econ. 331.83
plants **631.344**
Shelton, F: W: Am. satire 817.33
Shelving library bldgs **022.4**
Shelvs, library
fixt lib.bldgs 022.444
for large bks, erect " " 022.445
flat " " 022.46
material " " 022.45
public access " econ. 024.57
round sides of room 022.42
Shemitic languages **492**
Shenandoah
ship U. S. civ. war 973.757
valley campain civ. war 973.7377
Shenstone, W: Eng.poetry 821.58
Sheol eschatology 236.4
Shepherds zootechny 636.0835
[1]Shepherdstown, W.Va. hist. 975.499
Sherbet cookery 641.86
[1]Sherbrooke city, Que. hist. 971.466
[1] co. " " 971.466
Sheridan, R: B. Eng.drama 822.66
oratory. 825.64
Sheridan's ride U. S. civ. war 973.7377
Sheriffs law 347.96
local governm't 352.2
Sherman silver act U.S.hist. 973.86
Sherman's march to the sea 973.7378
[1]Shetland ilands history 941.11
travels 914.111
pony 636.1621
sheep 636.3258
Shields heraldry 929.6
wepons 399
Shifts of work pol. econ. 331.811
Shillaber, B. P. Am.humor 817.34
Shiloh, Tenn. battle 973.7326
Shingle roofs bilding 695.1
Shingles skin diseases 616.52
Shintoism 299.5
Ship
bilding 623.8
canals engineering 626.9
sociology 386
equipment shipbilding 623.86
fever diseases 616.922
heating 623.85
life hygiene 613.68
lighting 623.85
outfit 623.86
propulsion mech. eng. 621.12
railways 625.9
ventilation shipbilding 623.85
Shipboard cookery 641.574
Shipment
farm expenses 631.177
Shipping
business useful arts 656
dep't manuf'g plant 621.7966
history of sociology 387
laws 347.7
Ships
armoring 623.9
confederate U.S.civ.war 973.757
disinfection in contag. dis. 614.48
naval architecture **623.8**
transportation 656
Shipwrecks
adventures 910.4
life saving methods 656
Shipwreckt, rescue of
protection of life 614.868
Shire draft horse 636.1523
[1]Shoals, Isles of history 974.2
travels 917.42
Shock
repeated engineering 620.1125
result of injury 617.21
Shocker, corn 631.3551
Shoeing zootechny 636.0834
Shoemaking manufact'g 685
Shoes costume 391.4
domestic econ. 646.46
elec. traction 621.3347
Shone system sewerage wks 628.214
Shooting
galleries architecture 725.89
gunnery **623.54**
sport 799
Shop girls labor of women 331.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Shops
engineering works **621.7**
machine architecture 725.43
railway " 725.33
Shoregrape 634.664
Shoring
foundations architecture 721.12
bridges 624.152
Short ballot suffrage 324.216
cuttings 631.5355
eard swine, German 636.431
Hungarian 636.432
horn cattle 636.2221
wool sheep 636.323
Shorthand **653**
typewriters 652
Shortsightedness eye dis. 617.75
physiology 612.8451
Shot, case ordnance 623.45122
solid " 623.45111
Shoulder anatomy 611.971
blade " 611.7171
joints " **611.7272**
muscles " **611.7371**
Shovel
crop cleaning 631.3621
digging tools 631.3111
plow 631.3162
power engin'g 621.865
steamengin'g 621.154
Shower baths hygiene 613.44
Shows
entertainments 791
public customs 394.2
traveling feeding 641.577
Shrapnel, early 623.45113
modern 623.4514
Shrimps
fishery 639.5
zoology **595.31**
Shriners, Mystic masons 366.1
[1]Shropshire, Eng. history 942.45
down sheep 636.3236
Shrub adulterations 614.346
Shrubbery landsc. gard'ng 715
Shrubs **botany** **582**
layering horticulture 631.5346
Shuddering physiology 612.7464
Shuntwound generators 621.313233
Shunting engins 621.13263
Shutters archit. const. 721.87
Sialagogs therapeutics 615.741
[1]Siam history 959.3
[1] Lower " 959.5

Siamese
architecture 722.4
language 494
swine agriculture 636.485
twins deformities 617.35
nat. hist. of man 573.9
[1]Siberia history 957
Siberian fetherfooted fowls 636.572
Sibyllin books magic 133.3
Sibyls divination 133.3
Sicilian Norman architec. 723.45
Sicily ancient history 937.8
[1] modern " 945.8
Sick
food for hygiene 613.23
hedake diseases 616.857
hospitals for 362.1
architec. 725.51
leave lib. economy 023.67
military life 355.11
ministry of sacraments 265.8
parish care of 258
room dom. economy 649.8
Sickle 631.3511
Sickness
insurance pol. econ. 331.25
pensions " " 331.25
Side arms, military **623.444**
Sidehil plow 631.3124
Sidereal
clock and chronometer 522.51
day chronology 529.1
month astronomy 523.33
chronology 529.2
Sidewalks
local government 352.7
moving mech. engin'g 621.8675
pavements road " 625.88
Sidings railway engin'g 625.16
Sidney, P. English poetry 821.32
Siege
artillery mil. engin'g 623.415
guns gunnery 623.552
mounts ordnance 623.432
operations mil. eng. **623.2**
state of pol. sci. 323.92
warfare mil. science 355.44
[1]Sierra co. Cal. history 979.436
[1] Leone " 966.4
Sieves crop cleaning 631.3621
prac. chem. 542.22
Sifters crop cleaning 631.3623
Sifting 631.5623
Sighing physiology 612.219

Sight
anatomy **611.84**
asylums for the blind 362.4
diseases of **617.7**
mental faculties 152.1
optics 535.7
physiology **612.84**
sensory functions 612.82554
Sighting
apparatus gun mounts 623.4354
attachments guns **623.425**
gunnery **623.55**
Sigismund Ger. history 943.027
Sigmoid artery anatomy 611.13652
flexure " 611.349
mesocolon " 611.383
Sign boards advertising 659.1
language educ. of def 371.912
hieroglyfics 419.1
painting 698.1
Signal devices elec. eng. 621.3175
servis meteorology **551.5**
U. S. civ.war 973.7417
Signaling
communication 654.9
military **623.73**
Signals
electric 537.88
in navigation acoustics 534.83
military mil. eng. **623.73**
railway engineering 625.16
telegrafic 654.9
Signatures printing 655.27
Signs of deth physiol. 612.0131
pregnancy 618.22
Sikh religion 299.11
Sileneæ botany 583.153
[1]Silesia, Austria history 943.73
[1] Prussia " 943.14
Silesian merinos sheep 636.36734
Silhouet 741
Silicates mineralogy **549.6**
Silicon inorgan. chem. 546.28
Silius Italicus Lat.poetry 873.4
Silk
culture 638.2
domestic economy 646.14
dyeing chem. technol. 667.2
manufacture 677
mills architecture 725.41
worm agriculture 638.2
zoology 595.78
Silkies poultry 636.5883
Silo machinery 631.363
Silos
farm bildings 631.23
fodder storage 631.563
Silt lithology 552.52
Silurian age geology **551.73**
Silver
act, Bland U. S. hist. 973.83
act, Sherman U. S. hist. 973.86
Voorhees " 973.87
inorganic chemistry 546.57
metallurgy 669.2
mining 622.34
money 332.41
ores economic geol. 553.42
plating manufacture 671
question pol. econ. 332.42
Silverfish pests 632.71
Silversmiths work fine arts 739
Silverware
domestic economy 642.7
fine arts 739
manufactures 671
Simarubeæ botany 583.241
[1]Simcoe co. Ont. history 971.317
Similarity plane geom. 513.17
Simmental cattle 636.2372
Simmering cookery 641.73
Simms, W. G. Am. fiction 813.35
Simonides
of Ceos Greek lyrics 884.4
Samos " satire 887.2
Simony canon law 348
eccles. polity 262.9
Simple
state pol. sci. 321.01
stationary engins 621.1646
system suffrage 324.224
truss bridge engin'g 624.32
Simplex telegraf engin'g **621.38231**
Sin doctrin 233.2
Sinai ancient history 939.48
[1] modern " 953.1
Sinaitic inscriptions 492.1
[1]Sinaloa, Mexico history 972.3
[1]Sind, India " 954.7
[4]Sindi language **491.41**
[1]Singapore history 959.5
travels 915.95
Singers, lives of 927.8
[4]Singhalese language **491.48**
Singing
physiology 612.784
public worship 264.2
vocal music **784**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Single
acting engins stat'n'ry 621.1645
structure 621.11221
altitude, finding time by 529.73
course curriculum 375.0012
curvd lines descr. geom. 515.14
surface " " 515.14
expansion engins 621.11261
fluid cells engineering 621.3533
member constituency 324.221
phase electric mach. 621.313321
standard coinage 332.42
tax 336.22
vote suffrage 324.223
Sinking fund finance 336.33
Sintuism 299.5
Sinus surgery 617.23
pocularis anat. 611.6231
[1]Sioux City, Ia. history 977.7411
[1] co. Ia. " 977.713
Siphonophora zoology 593.72
Siphons prac. chem. 542.66
Sirenia mammals 599.5
Sirocco meteorology 551.51
Sirup adulterations 614.311
Sisal fibers 633.5771
[1]Siskiyou co. Cal. hist. 979.421
Sisterhoods parochial work 255
relig. orders 271.9
Sisters of Charity 271.91
Mercy 271.92
Site
dwellings dom. econ. 643.1
library bildings 022.1
school bildings 371.61
Sithe
bush 631.3117
cradle harvesting tools 631.3513
harvesting tools 631.3512
Sittingroom furnishings 645.65
[1]Sivas, Asia Turkish hist. 956.5
Sivs crop cleaning 631.3621
practical chemistry 542.22
Sixth nerv
anatomy 611.8316
eye 612.8466
nucleus 611.8175
physiology 612.8196
Size notation for books 025.3
of college 378.15
sewers 628.22
Sizes
of books lib. econ. 025.8
publishing 655.53
standard literary meth. 029.1
type printing 655.24
Sjöberg, Erik Swed. satire 839.7762
Skating 796
rinks architecture 725.86
Skeeing sports 796
Skeleton
human 611.71
leaves fancy work 746
of animals comp. anat. 591.49
descrip. " 591.79
Skeletons, preparation of 579.1
Skelton, J: English poetry 821.22
Skepticism
heresies 273.8
natural theology 211
philosofic systems 149.7
philosofy 186.1
Skeptics biografy 922.91
Sketches
hospital Great war 940.476
U.S. civ." 973.776
Sketching drawing 741
Skew arches architecture 721.42
bevel gears engin'g 621.8332
Skiing sports 796
Skild labor pol. econ. 331.7
Skill, games of amusm'ts 794
ethics 175.4
Skim colter plow 631.3127
milk dairy 637.147
Skimmers dairy 637.23211
Skin
absorption 612.384
admin. of medicin by 615.67
anatomy 611.77
diagnosis pathology 616.073
diseases " 616.5
dressing taxidermy 579.4
fertilizers agriculture 631.843
function physiology 612.79
grafting 617.47
loss of heat
by evaporation 612.524
radiation 612.521
plow 631.3125
Skirmishing mil. science 355.42
Skull anatomy 611.91
bones 611.714
craniology 573.7
[1]Skye, Scotland history 941.17

Skylights
architec. construction 721.55
design 729.35
library bildings 022.722
Slags
fertilizers agriculture 631.853
metallurgy 669.8
Slander ethics 177.3
Slang college 378.014
[3] **English language 427**
[3] modern Eng. lan. 427.09
Slate roofing bilding 695.2
turkey 636.5925
Slater fund education 373.75
Slates bilding stones 553.54
lithology 552.44
Slating bilding 695
Slaughter
house refuse fertilizers 631.843
houses air pollution 614.741
indust. sanit. 628.549
mt, Va. U. S. civil war 973.7328
Slaughtering
industry 664.9
method of animal hyg. 614.97
Slave
holding slavery 326
labor polit. econ. 331.58
law, fugitiv slavery 326.973
trade " 326.1
Slavery 326
abolition of, U. S. history 973.714
causes of U. S. civil war 973.7111
constitut. amendment 342.73
U. S. hist. 973.81
emancipat'n proclamat'n 973.714
Slaves biografy 326.92
fugitiv U. S. civil war 973.7115
Slavic
languages 491.8
literatures 891.8
philosofers 197
biografy 921.7
[1]Slavonia history 943.93
[4]Slavonic church language 491.81
Sleds farm transport 631.3723
Sleep
and rest hygiene 613.79
of plants botany 581.54
physiology 612.8217
walking 135
Sleeping
balconies furnishings 645.8
location 643.57
Sleeping
sickness 616.9681
Sleight of hand 791
Slide rule math. instrum. 510.8
Slides
gun mounts 623.4352
lantern education 371.335
mounting of microscopy 578.6
Sliding
friction mechanics 531.44
scale wages 331.22
shelvs lib. storage 022.46
[1]Sligo, Ireland history 941.72
Slime treatment ore dres. 622.76
Sloan shorthand 653.38
Slöjd education 371.422
Sloth ethics 179.8
Sloths mammalia 599.3
Slotters machine tools 621.912
[4]Slovakian language 491.87
[4]Slovenian " 491.84
[4] old " 491.81
Slow cookers 643.338
Sloyd education 371.422
Slugs zoology 594.3
Sluice gate wheels 621.224
Sluices engineering 621.29
Small
arms care of 623.4814
manufacture 683
mil. efficiency 623.44
farm 631.1161
fruits agriculture 634.7
intestin anatomy 611.341
numbers entertaining 642.42
pox diseases 616.912
inoculation 614.471
public helth 614.521
swine, black 636.421
white 636.422
vs large college 378.15
Smearcase 637.356
Smell anatomy 611.86
physiology 612.86
senses 152.3
sensory functions 612.82556
Smelting metallurgy 669.8
Smith, H. Danish misc. 839.8825
S. English essays 824.72
Smith college educ. 376.8
[1]Smithfield, W. Va. hist. 975.418
Smithsonian
exchanges lib. econ. 021.852
institution 506

Smoke
air pollution 614.71
box locomotivs 621.1334
flues heating 697.8
nuisance sanitation 628.53
stack locomotivs 621.1334
stacks steam eng'ng 621.1838
Smoking ethics 178.7
food preservation 641.4
hygiene 613.84
jackets 646.47
Smollett, T. G: Eng. fic. 823.63
Smooth muscles physiol. 612.73
Smoothing harrow 631.3131
Smuggling criminal law 343
tarif 336.26
Smut agriculture 632.4227
fungi 589.227
[1]Smyrna, Asia history 956.2
travels 915.62
Snails culture 639.4
zoology 594.3
Snakes 598.12
Snap bean 635.652
Snares zootechny 636.081111
Sneezing physiology 612.219
therapeutics 615.726
Snoring physiology 612.219
Snow
meteorology 551.57
removal 628.46
sheds railroad engin'g 625.13
Snowshoeing sports 796
[1]Snyder co. Pa. history 974.849
travels 917.4849
Soap
laundry dom. econ. 648.18
making air pollution 614.744
chemic technol. 668.1
Soapstones econom. geol. 553.55
Soaring aeronautics 629.142
Sobriquets bibliografy 014
Sociability animals 591.55
Social
centers 374.28
clubs 367
customs and manners 394
bad hygiene 613.87
democracy socialism 335.5
distinctions ethics 177.5
rank 929.7
drinking temperance 178.3
ethics 177
evil 176.5
Social
obligations ethics 177.8
science 300
surveys sociology 309.1
travel 914.19
theories pol. sci. 320.153
worship 264.7
Socialism 335
Socialistic communities U. S. 335.973
Societies 300
American hereditary 369.1
patriotic 369.1
Bible 206
debating 374.24
dress reform 646.06
for home study 374.43
parish work 256
general 060
learned, bildings for 727.9
library 020.6
rooms for lib. bldgs 022.614
secret 366
bildings arch. 728.4
college 371.85
student aid 378.362
[2] special see subject
Society
ethics 177
for ethical culture 170 6
houses student life 371.86
[1] ilands history 996.2
libraries lib. econ. 027.2
of American wars 369.118
army & navy of the Gulf 369.156
Christian endevor 267.613
Jesus monastic ord. 271.5
nations internat. law 341.1
2d war with Gt Brit. 369.144
the army of Santiago 369.182
the Cincinnati 369.131
songs music 784.6
Socinians heresies 273.4
unitarians 288
Sociology 300
biografy of 923
Socrates Gk philosofy 183.2
Socratic philosofy 183.3
Sod plow 631.3125
Soda chemic technology 661.3
water adultera. 614.348
chem. tech. 663.6
Sodalities parish work 256
Sodium inorganic chem. 546.33
salts physiology 612.39261

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Soeurs de bon Secours
sisterhoods 271.94
[1]Sofala, Africa history 968.1
Soft cheese, ripend 637.353
unripend 637.352
commissure anat. 611.8144
drinks recipes 641.87
Sogdiana ancient hist. 939.61
Soil
conditions affecting helth 614.77
disinfection, in contag. dis. 614.48
foundations architecture 721.11
bridge 624.151
Soils
agriculture 631.4
chemic analysis 543.7
Soja bean field crops 633.34
garden " 635.655
Solanaceæ botany 583.79
[1]Solano co. Cal. hist. 979.452
Solar
day chronology 529.1
engins engineering 621.47
observation astron. instr. 522.56
parallax, transit of Venus 523.92
physics 523.7
plexus anatomy 611.83931
spectrum astronomy 523.77
system descrip. astron. 523.2
year chronology 529.2
Solariums dom. econ. 643.57
Soldiers
cemeteries, national 719
food for hygiene 613.21
homes architecture 725.59
institutions 362.8
lives biografy 923.5
military science 355
orphan schools 362.7
suffrage limitations 324.171
voting by pol. sci. 324.162
Sole fishes 597.5
Soleus muscle anatomy 611.73854
Sol-fa method music 784.9
Solid
beams bridge engin'g 624.22
fuels steam engin'g 621.18222
state chemistry 541.31
Solidification heat 536.43
prac. chem. 542.65
Solids
geometry 513.3
properties of physics 539.2
skin penetration by 612.7911
Solitary
confinement punishm'ts 343.2
glands anatomy 611.3445
study self education 374.1
vice ethics 176.4
Solitude 177.8
Solognote sheep 636.3442
[1]Solomon ilands history 993.5
Solomon, Song of Bible 223.9
Solos vocal music 784.81
Solubility theoretic chem. 541.34
Solution
chemic 542.61
of plane triangles trigo. 514.5
spheric " " 514.7
trigonometric equations 514.4
Solutions quantitativ anal. 545.6
skin absorption 612.7913
Solvents prac. chem. 542.61
[1]Somali, Africa history 967.7
Somatology anthropology 573
Somatopleure embryology 611.01364
[1]Somerset co. Eng. history 942.38
travels 914.238
[1] Me. history 974.12
[1] Md. " 975.223
[1] N. J. " 974.944
[1] Pa. " 974.879
Somerset horn sheep 636.3241
[1]Somme, France history 944.26
Sommelier ram hyd. engins 621.274
Somnambulism 135
Somnambulists' lives 920.9
Sonata organ music 786.81
piano " 786.41
Song
festivals music 784.5
of Solomon Bible 223.9
the three children Bible 229.5
Songbooks folklore 398.8
Songs 784
[5] and ballads Eng. lit. 821.04
music 784.3
for female voices 784.88
male " 784.87
kindergarten methods 372.215
with music 784
[5]Sonnets Eng. literature 821
[1]Sonoma co. Cal. hist. 979.418
[1]Sonora, Mexico " 972.1
Sons of
the Amer. revolution 369.133
revolution 369.134
veterans, U. S. army, soc. 369.165

Sophist philosofy 183.1
Sophocles Greek drama 882.2
Sophoreae forage crops 633.371
[4]**Sorbian language 491.88**
Sorcery 133.4
Sore throat diseases 616.31
Sores surgery 617.24
Sorghum cereals 633.174
manufacture 664.1
sugar plants 633.62
Sorterup, Jörgen Dan.poet. 839.8141
Soteriology doct. theol. 234
hygiene 613
Soto, H. de discov. of Am. 973.16
[1]Soudan, Africa history 966.2
[1] Egypt " 962.6
Soul
future life doct. theol. 237
nat. " 218
in animals 591.51
metaphysics 128
origin metaphysics 129
theories physiology 612.0134
[1]Soulanges co. Que. hist. 971.4265
Soumet, A. French drama 842.71
Sound
mesology 612.01445
physics 534
sensibility to physiol. 612.85876
Sounders, telegraf eng. 621.3833
Sounding
machines ship outfit 623.86
Soundings marine survey. 526.09
physical geog. 551.46
Soundness
of animals zootechny 636.08115
Sound-producing organs
comparativ physiology 612.786
zoology 591.77
Sounds
muscular physiol. 612.7418
of hart " 612.1715
respiratory " 612.2161
systems of fonology 414
Soup cookery 641.73
physiol. of nutrition 612.39282
Sources of
animal heat physiology 612.51
Sourmilk cheese 637.357
" cowsmilk 637.356
Soursop 634.411
South
[1] **Africa history 968**
travel 916.8
South
America description 918
eccles. history 278
geology 558
[1] **history 980**
statistics 318
American languages 498
American travels 918
[1] **Atlantic states history 975**
[1] Australia, " 994.2
[1] Bend, Ind. " 977.289
travels 917.7289
Carolina, U. S.
[1] history 975.7
secession U. S. hist. 973.713
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
[1] **Central states Am. hist. 976**
travels 917.6
Dakota U. S.
admission U. S. hist. 973.86
[1] history 978.3
military hist. Span. war 973.89483
U. S. civ. war 973.7483
travels 917.83
Devon cattle 636.2261
sheep 636.3218
Dum " 636.3218
German swine 636.431
Hams cattle 636.2262
Mt, Md. battle 973.7336
[1] Russia history 947.7
travels 914.77
[1] Sea ilands history 996
travels 919.6
scheme stocks 332.6
[1] **U.S. history 975**
For military history of the south or its individual states, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
Southam holts 636.3217
Southdown sheep 636.3231
Southern
army life U. S. civ. war 973.784
Atlantic ocean 551.464
dewberry 634.7172
home life U. S. civ. war 973.784
[1] **Maryland history 975.24**
prisons " 973.771
states, U. S. Amer. revol. 973.345
[1] **history 975**
Southerne, T: Eng. dram. 822.52

Southey, R. " poet. 821.73
Souvestre, É. Fr. fiction 843.75
[1]**Southwest U. S. history 978**
travels 917.8
Soveren
state political science 321.01
Soverens biografy 923.1
Soverenty pol. science 320.157
Sowers, special 631.3318
Sowing
broadcast 631.5311
machinery 631.33
Soy bean forage crops 633.34
garden " 635.655
Space astronomy 523.14
metaphysics 114
sense physiology 612.881
Spaders machines 631.3115
Spades digging tools 631.3111
trail ordnance 623.43565
Spadicifloræ botany 584.6
Spading tillage 631.511
harrow 631.3137
Spain
administration 354.46
antiquities 913.46
Arabs in history 946.02
architecture 720.946
botany 581.946
finance 336.46
geology 554.6
[1] **history 946**
maps 912.46
peerage 929.76
schools 379.46
statistics 314.6
travel 914.6
treaties 341.246
treaty with U. S. hist. 973.43
war " " 973.89
other topics see table 1
Spanish
[1] **America history 972**
travels 917.2
American war, naval
and military order of 369.183
architecture, Romanesque 723.46
armada Eng. history 942.055
Span. " 946.04
art 709.46
Austrian ascendency
Ital. history 945.07
discovery of America 973.16
Spanish
inquisition persecutions 272.2
[3] **language 460**
lime fruit culture 634.652
literature 860
Maltese goat 636.396
misrule in Cuba U.S.hist. 973.891
philosofers biografy 921.6
philosofy 196
plum 634.443
potato 635.22
poultry 636.56
rule Mexican history 972.02
salsify 635.167
sheep 636.36
succession, war of
U. S. history 973.25
swine 636.46
war U. S. history 973.89
veterans, soc. of 369.181
Spar economic geology 553.66
Spars shipbilding 623.85
Spark
arresters locomotivs 621.1334
induction electricity 537.52
telegrafy 621.38421
Sparring amusements 796
Sparrows agriculture 632.688
zoology 598.8
Sparta ancient history 938.9
Spartan supremacy Gk hist. 938.06
Spas, bildings for architec. 725.75
hygiene 613.12
Speakers legis. bodies 328.3621
oratory 808.5
Speaking tubes communi. 654.8
lib. econ. 022.947
Spearmint 635.72
Special
bills legislation 328.376
committees legislation 328.3627
days school methods 371.365
legislation pol. sci. 328.243
material lib. acquis. 025.29
admin. 025.17
nationalities, schools for 371.98
procedure legislation 328.379
ranks education of 371.96
schools gymnastics in 371.7325
man. train'g in 371.424
sessions legislativ bodies 328.358
types education of 371.97
Specialization of libraries 025.212

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Specie
circular U. S. history 973.56
payment banking 332.4
U. S. history 973.83
Species
of animals zootechny 636.08211
origin of 575.8
Specific
customs taxation 336.26
gravity chemistry 542.33
liquids phys. 532.4
physics 531.54
soil 631.431
Specifications for bildings 692.3
Specifics therapeutics 615
Specimen books printing 655.24
Specimens
arrangement in museums 579.7
mounting of 579.5
preservation in museums 579.8
Spectacles
disorders of vision 617.75
optics 535.86
Specters 133.1
Spectroscope optics 535.84
Spectroscopy
astronomy 522.67
of blood physiology 612.11115
urin " 612.461175
Spectrum
analysis chemistry 544.6
optics 535.84
qualitativ anal. 544.6
of comets astronomy 523.67
meteors " 523.57
moon " 523.37
stars " 523.87
sun " 523.77
Speculation banks 332.6
ethics 174.5
Speech
freedom of pol. sci. 323.443
impediments of 612.78
organs of acoustics 534.7
human anat. 611.2
philology 400
phonology 414
physiology 612.78
visible compar. philol. 414
[5]**Speeches English oratory 825**
Speed
horse 636.12
logs shipbilding 623.86
of trains railwy engin'g 625.26
Speed
ship design 623.81
shorthand 653.03
Spegel, Haquin Swed. poet. 839.7133
Spelin universal lang. 408.9
Spelling
[3] books Eng. lang. 428.1
[3] phonetic " " 421.4
[3] reform " " 421.4
Spencer, Herbert " philos. 192.8
[1]Spencer co. Ind. history 977.231
Spenser, E. Eng. poetry 821.31
Sperm cells development 591.171
embryology 611.01311
physiology 612.616
Spermatic
artery anatomy 611.1368
cord " 611.639
diseases of 616.68
nervs anatomy 611.8393
secretions phys. zool. 591.146
vein anatomy 611.1466
Spermatogenesis embryol. 611.01312
Spermatorrhea diseases 616.69
Speroni, Sperone It.dram. 852.41
Speusippus Greek philos. 184.2
Sphagna botany 588.1
Sphenoid bone anatomy 611.7152
Sphenopalatin
arteries anatomy 611.133281
ganglion " 611.89154
Spheres
of influence pol. sci. 321.027
perspectiv math. 515.65
strength engin'g 620.11284
Spheric
astronomy 522.7
coordinates astronomy 522.71
excess triangulation 526.41
geometry 513.41
projections descr. geom. 515.5
shells ordnance 623.45113
trigonometry 514.6
trigonometry
computing triangulat'n 526.44
Spheroconics anal. geom. 516.58
mod. " 513.58
Spheroidal trigonometry
computing triangulation 526.45
Sphincter muscle of eyelid 611.7325
Sphinx Egyptian mythol. 299.31
Sphygmograf diagnosis 616.071
physiology 612.161

Sphygmomanometry " 612.1611
[1]Spice ilands history 991.3
travel 919.13
Spices adulterations 614.314
agriculture 633.83
chemic technol. 664.5
Spiders zoology 595.4
Spiegelschaf 636.3331
Spielhagen, F; Ger. fiction 833.84
Spies American revolution 973.385
Great war 1914–19 940.485
international law 341.3
U. S. civil war 973.785
Spikes railway engin'g 625.15
Spina bifida surgery 617.32
Spinach 635.41
Spinal
accessory nerv anatomy 611.83192
larynx 612.7821
physiol. 612.81992
canal anatomy 611.828
colum " 611.711
cord
action on blood vessels 612.1813
anatomy 611.82
functional diseases of 616.84
physiology 612.83
structural dis. of 616 83
curvature diseases 616.73
membranes anatomy 611.829
nervs " 611.832
ganglions of " 611.892
poisons therapeutics 615.97
veins anatomy 611.1457
Spinalis dorsi " 611.7315
Spindles stone age 571.26
Spine, curvature of dis. 616.73
Spinning manufactures 677
Spino-
costal muscles anat. 611.7312
dorsal " " 611.7313
humeral " " 611.7311
Spinoza German philos. 193.9
pantheism 147
Spiral ganglion anatomy 611.89181
gears mech. engin'g 621.8333
Spirals anal. geometry 516.26
Spires
architectural construction 721.57
architectural design 729.35
Spirit doctrinal theol. 233.5
leveling, geodesy 526.36
Spiritism 133.9
Spiritual
body doctrinal theol. 233.5
heredity " " 233.3
mental charac. 136.3
metaphysics 129.2
Spiritualism
metaphysics 111
modern 133.9
sects 289.9
Spirituous liquors
chemic technology 663
temperance 178
[1]Spitzenberg history 998
travels 919.8
Spitzka's tract anatomy 611.8255
Splanchnopleure embryol. 611.01365
Spleen anatomy 611.41
diseases of 616.41
physiology 612.41
Splenic
artery anatomy 611.13642
fever diseases 616.956
nervs anatomy 611.8393
vein " 611.1494
Splenius muscle " 611.7314
Splenotomy physiology 612.412
surgery 617.44
Splice grafting 631.54132
Splints fibers 633.588
surgery 617.92
Splügen pass Alps 914.94
Spoils system civ. servis 351.6
Spongeosum histology 611.01843
Sponges fossils 563.4
zoology 593.4
Spontaneity metaphysics 127
Spontaneous
combustion chemistry 541.36
generation biology 576.1
physiology 612.601
Sporadic cholera diseases 616.933
Spores horticulture 631.5317
Sports, outdoor 796
parlor 793
Spots on the sun 523.74
Spotted fever diseases 616.925
race cattle 636.2374
Spottsylvania C. H. Va.
U. S. civil war 973.7367
Sprague, C: Am. poetry 811.28
Sprains surgery 617.17
Spraying agriculture 632.94
Spreders, hay 631.3531
mixt 631.334

Spring tides 525.63
[1]Springfield, Ill. history 977.356
[1] Mo. " 977.8781
Springfield, N. J. Am.rev. 973.3365
[1] O. history 977.1491
Springs
bearing railway engin'g 625.21
hot physic. geology 551.23
mineral economic geol. 553.7
physical geografy 551.49
strength of materials 620.11285
waterworks 628.11
Springtails pests 632.71
zoology 595.71
Sprinkling of streets
sanitation of towns 628.46
Springtooth harrow 631.3133
Spud farm tools 631.5332
Spudding bit 631.3113
Spur gears mech. engin'g 621.8331
Spurwingd goose 636.59889
Squabs poultry 636.596
Squadron
Atlantic U. S. civ. war 973.756
Span. " 973.895
Gulf civ. war 973.756
military science 355.31
naval " 359
Squadrons, confederate
U. S. civil war 973.757
Squalides fishes 597.3
Squares
least geodesy 526.5
probabilities 519.8
magic arithmetic 511.61
tables of 510.8
Squaring the circle geom. 513.21
Squash bug pests 632.75
Squashes 635.62
Squatter soverenty
constitutional history 342.73
slavery 326.973
U. S. history 973.64
Squids zoology 594.5
Squinting eye diseases 617.76
Squirrels pets 636.9
zoology 599.3
Staatenbund pol. sci. 321.022
Stability
aviation 629.186
ship design 623.81
Stable manure air pollut. 614.761
fertilizers 631.86
Stables
air pollution 614.761
architecture, private 728.94
public 725.38
care of zootechny 636.0832
farm bildings agric. 631.22
feeding in zootechny 636.08421
shelter " 636.0831
Stackers, hay 631.3534
Stackhousieæ botany 583.274
Stacks
elec. lighted lib. bldg 022.77
library economy 022.43
Stadia surveying 526.91
Stadiums architecture 725.82
Staël Holstein, A.L.G. Fr.fic. 843.62
Staf
heds library economy 023.72
library economy 023.5
military science 355.33
music 781.2
[1]Stafford, England history 942.46
Stage
coach transportation 656
ethics 175.2
theater 792
Stagnelius, E. J. Swed.poet. 839.7164
Staind glass
decoration 748
design architecture 729.8
library decoration 022.348
sacred ornaments 247.4
school decoration 371.636
Staining
chemic technology 667.6
reactions of urin 612.461174
substances, physiol. chem. 612.0154
Stair furnishing dom. econ. 645.61
Stairbilding bilding 694.8
stereotomy 515.83
Stairs architectur. design 729.39
moving mech. eng. 621.8676
Stakes plant support 631.3452
training 631.5461
Stalactites and stalagmites 551.92
Stalk cutter 631.3166
Stalls
shelter zootechny 636.0831
Stammering 616.87
Stamp
accession lib. economy 025.244
act English history 942.073
U. S. " 973.3111
collecting 383

Stamp
embossing lib. economy 025.252
laws finance 336.27
perforating lib. economy 025.252
Stamped lether bilding 698.8
Stamping
books, etc. lib. econ. 025.252
designs fancywork 746
machines, hydraulic 621.266
Stamps
butter dairy 637.2328
electric machinery 621.318
postage postoffis 383
practical printing 655.35
Stampt lether bilding 698.8
Standard
library lib. economy 022.54
sizes literary methods 029.1
solutions volumet. anal. 545.6
time 529.75
Standards
library lighting fixtures 022.764
of admission schools 371.21
excellence zootechny 636.08114
living laboring classes 331.83
Standing
army 355.35
committees legis. bod. 328.3627
Standpipes waterworks 628.12
Stanhope, P. D. Eng. letters 826.52
[1]Stanislaus co. Cal. hist. 979.457
[1]Stanstead co. Que. " 971.467
Stanwix, Fort Am. revol. 973.3334
Stapedius muscle 611.857
Stapes anatomy of ear 611.857
Star
apple 634.433
family fruits 634.43
catalogs astron. observ. 524.8
descrip. astron. 523.89
chamber Eng. history 942.05
clusters 523.85
connections elec. eng. 621.3191333
drift 523.83
fish fossils 563.92
zoology 593.92
shells mil. engin'g 623.45446
Starch
adulterations 614.312
chemistry of food 641.13
composition physiology 612.396111
gastric digestion " 612.3221
laundry supplies 648.18
manufacture 664.2
Starch
plants 633.68
protectiv external agents 615.776
tryptic digestion 612.3421
vegetable drugs 615.331
Starching laundry process 648.25
Starchy foods physiology 612.39273
[1]Stark co. Ill. history 977.351
[1] O. " 977.162
[1]Starke co. Ind. " 977.292
Starkenburg goat 636.393
Stars descriptiv astronomy 523.8
Starting
apparatus aviation 629.187
Starvation dietetic diseases 616.39
hygiene 613.24
State
aid to libraries 021.831
and church, *see* Church
individual pol. sci. 323.4
social groups " 323.3
wages political econ. 331.26
as moral agent pol. sci. 320.154
banks 332.12
capitols architecture 725.11
control of cities adminis. 352.002
council French gov't. 354.4405
council Ger. gov't 354.4308
dep't U. S. " 353.1
dets finance 336.3
education 379
ethics 172
governments 353.9
labor wages 331.262
laboratories adulterat. 614.3
law reports U. S. 345.42
laws, uniform 328.22
libraries 027.5
medicin 614
ministries of architec. 725.12
monopolies 336.19
ownership of land 333.1
political science 320
prisons architecture 725.61
properties finance 336.1
representation legis. bod. 328.3341
rights U. S. const. law 342.73
socialism 335.6
supervision of libraries 021.81
schools 379.15
trials criminal law 343.1
universities 378
state educat. 379.16

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Statecraft 320.2
[1]Staten Island, N. Y. hist. 974.726
States
general Fr. legislature 328.449
German government 354.4307
[1] of the Church, Italy hist. 945.6
States' rights
causes of U. S. civil war 973.7117
constitutional law 342.73
Statesmanship polit. sci. 320.2
Statesmen biografy 923.2
Static
electricity physics 537.2
cell physiol. 612.0144212
Statics 531.2
chemic 541.39
Stationary
boilers engineering 621.18424
engins 621.16
induction apparatus eng. 621.314
Stationery
library correspondence 025.151
printing 025.121
paper manufacture 676
Stations
central elec. engineering 621.312
fire alarm architecture 725.19
police " 725.18
railway passenger " 725.31
Statistical
methods 311
theory of wages 331.211
Statistics 310
labor 331
library administration 025.123
see also special subjects
Statius, P. P. Lat. poetry 873.5
Statuary dom. economy 645.5
sculpture 730
Stature
influence on respiration 612.2291
Status
professional, of teachers 371.15
public " " 371.104
social " " 371.105
Statute law American 345
British 346
Stays
locomotiv boiler 621.1332
plant support 631.3452
Steam
baths prac. chemistry 542.46
boiler inspection eng. 621.1947
prot. of life 614.837
Steam
boilers engineering 621.18
collectors engineering 621.18479
cooking appliances 643.337
distribution 621.185
locomotivs 621.1342
dredges portable engins 621.154
drills " " 621.154
engin agriculture 631.3715
mech. eng. 621.1
physics 536.81
engineering 621.1
engins, management of 621.195
fitting 696.3
generation engin'g 621.18
heated apparatus, cookery 641.587
kitchen 643.337
heating bilding 697.5
boiler plants 621.19
jets mech. engin'g 621.69
mine ventilation 622.43
navigation sociology 387
useful arts 656
physics 536.44
pipes 696.3
engineering 621.185
plow agriculture 631.3123
traction engins 621.146
power electric plants 621.312132
plants 621.19
pumps engineering 621.64
mine drainage 622.54
reapers traction engins 621.146
ships naval architecture 623.8
shovels portable engins 621.154
threshers " " 621.156
transmission engin'g 621.185
transportation, useful arts 656
turbins engineering 621.165
marine 621.123
vessels shipbilding 623.823
Steamboat inspection 614.864
Steaming cookery 641.75
Steapsin tryptic digest. 612.3423
Stearin organ. chem. 547.7
Stearns duplex telegraf 621.382322
Steatoses, hepatic physiol. 612.3541
Stedman, E. C. Am. poet. 811.43
Steel
bilding material 691.7
bildings, library 022.21
bridges, archt 624.67
engraving 762
manufactures 672

Steel
metallurgy 669.1
piers and colums arch. 721.35
ships 623.84
strength of materials 620.17
structures architec. 721.93
works " 725.43
engineering 621.7
Steele, R: Eng. essays 824.53
Steeplechaser 636.122
Steeples architecture 729.35
Steering
apparatus aviation 629.185
ballooning 629.165
committee legis. proced. 328.375
gear shipbilding 623.85
seamanship 656
Stege, H. T. Dan. drama 839.8234
Stellar astronomy 523.8
Stelleridea zoology 593.93
Stem
cuttings 631.5354
grafting 631.54143
suckers 631.5331
Stencil decoration 747
Stencils prac. printing 655.35
Stenografers lib. corresp. 025.152
staff 023.761
Stenografy 653
Stensen, Niels Dan. misc. 839.883
Stenson's duct anatomy 611.3165
Step grates steam eng. 621.18354
Stephen English history 942.024
[1]Stephenson co. Ill. " 977.333
Stepladders lib. economy 022.941
Sterculiaceæ botany 583.18
Stereochemistry 541.6
organic 547.2
Stereografic
projections descr. geom. 515.53
Stereometer spec.grav. 531.54
Stereometry gaging 511.8
Stereopticon optics 535.86
education 371.335
Stereoscopes " 535.86
Stereotomy descr. geom. 515.8
Stereotyping printing 655.22
Sterility diseases 616.69
gynecology 618.17
Sterilization, food preserv. 641.4
infant feeding 613.22
Sterilization, soil 631.46
[1]Sterling, Scotland history 941.36
Sterne, L. Eng. fiction 823.62
Sternoclavicular joints 611.7271
Sternocleidomastoid muscle 611.7331
Sternohyoid muscle 611.7332
Sternothyroid muscle 611.7334
Sternum anatomy 611.713
Stethometry physiology 612.211
Stethoscope diagnosis 616.074
[1]Steuben co. Ind. history 977.278
[1] N. Y. " 974.783
[1]Steubenville, O. " 977.1691
Stevens, Ft, D.C. U.S. hist. 973.7369
Steward dom. economy 647.21
Stewart, Dugald Eng.phil. 192.6
Stewing cookery 641.74
Sthen, H. K. Dan. drama 839.8232
Stiftschulen diocesan sch. 377.4
Stigmata devotional 248
Stijl, Simon Dutch misc. 839.384
Stil births pregnancy 618.39
vital statistics 614.131
life painting 754
Stilling's canal anat. 611.8447
nuclei " 611.8223
Stils chemic technol. 668.7
prac. chem. 542.48
Stillwater Amer. revol. 973.3333
Stilton cheese 637.3542
Stilts
concrete arch. foundat. 721.166
Stimulants
action of hygiene 613.8
and narcotics medicin 615.78
ethics of using 178
manufacture 663
of circulatory system 615.711
physiology 612.393
Stimulation
electrophysiology 612.01442
nervous
chemic phenomena 612.814
electric " 612.813
nervous
histologic fenomena 612.815
physiologic psychology 612.8211
thermic phenomena 612.814
of hart physiology 612.1723
muscle " 612.74162
reaction to psychometry 612.8211
Stipa fibers 633.583
Stipple engraving 765
Stirpiculture hygiene 613.94
Stirrup bone anatomy 611.857
Stjernhjelm, G. Swed. poet. 839.7131

Stock
exchanges priv. finance 332.6
farm types 631.145
catalogs 636.08187
farms 636.0813
formation of zootechny 636.082
grafting 631.5411
jobbing 332.6
live agriculture 636
raising zootechny 636.08
selection " 636.0811
taking library econ. 025.8
tickers elec. engin'g 621.38251
yards architecture 725.27
[1]Stockholm history 948.7
travels 914.87
Stockings costume 391.4
toilet 646.42
Stocks polit. economy 332.6
[1]Stockton, Cal. hist. 979.456
Stockwerks econ. geol. 553.17
Stoddard, R: H: Am.poetry 811.41
[1]Stoddard co. Mo. history 977.895
Stoic philosofy 188
Stoichiometry chemistry 541.9
Stoke, Melis Dutch poet. 839.3114
Stokers, mech. steam eng. 621.1836
Stolons 631.5332
Stolze shorthand 653.34
Stomach
administration of med. by 615.61
anatomy 611.33
diseases of 616.33
physiology 612.32
Stone
age, early 571.1
late 571.2
and iron structures arch. 721.96
artificial
bilding materials 691.3
chem. tech. 666.8
piers and colums 721.33
strength engin'g 620.132
walls architec. 721.23
bilding materials 691.2
bildings, library 022.21
boats farm transport 631.3733
carving sculpture 736
ceilings arch. construc. 721.72
colums " " 721.32
construction masonry 693.1
[1] co. Mo. history 977.8794
cutters' occupation hyg. 613.63
Stone
cutting masonry 693.12
sculpture 731
stereotomy 515.81
diseases 616.62
floors arch. construc. 721.62
foundations architecture 721.1332
fruits 634.2
gatherer 631.3117
houses, city arch. 728.31
detacht " 728.37
semi " " 728.34
village " 728.62
natural bilding material 691.2
strength 620.132
pavements engineering 625.8
piers arch. construc. 721.32
quarries prehist. archeol. 571.21
remains, neolithic 571.24
paleolithic 571.14
roads engineering 625.86
rollers 631.3141
walls arch. construc. 721.22
ware manufactures 666.6
work, bonds of masonry 693.11
Stonehenge Eng. antiqui. 913.42
Stones
bilding econ. geol. 553.5
ornamental " " 553.8
River, Tenn. U.S. hist. 973.7337
Stonington, Ct.
U. S. war of 1812 973.5236
Stony Point Am. revol. 973.3354
Stool layering 631.5343
Stoping mining engin'g 622.27
Stoppage of wages 331.1
Stoppers prac. chem. 542.25
Stopping teeth dentistry 617.67
Storage
batteries elec. eng. 621.354
bildings architecture 725.3
cheese business 637.3352
cold " 725.35
crops 631.55
of electricity engin'g 621.35
science 537.84
explosivs, prot. of life 614.831
milk 637.1327
noxious materials
air pollution 614.75
rooms lib. econ. 022.4
safe deposit architec. 725.35

Store
and apartment bildings **725.22**
orders wages 331.235
ships shipbilding 623.826
Storehouse, library as **021..1**
Storehouses mfg plant **621.796**
R. R. archi. 725.33
Storeroom dom. econ. 643.37
Stores
care and cleaning 647.9621
cooperativ pol. econ. 334.5
department 658
retail architecture 725.21
wholesale " 725.21
[5]**Stories English fiction** **823**
kindergarten 372.214
of animals 591.5
Storm, Edvard Dan. poet. 839.8154
[1]Stormont co. Ont. history 971.375
Storms
electric 538.7
meteorology 551.55
wind meteorology 551.51
Story, Isaac Am. satire 817.21
[1]Story co. Ia. history 977.7546
Story of Susanna Bible 229.6
Stoves
heating bilding 697.2
kitchen equipment **643.**[illegible]
manufactures 672
Stowe, Mrs H. B.
Amer. fiction 813.37
Strabismus eye diseases 617.76
physiol. 612.8468
[1]Strafford co. N. H. hist. 974.25
Straight lines descr. geom. 515.11
Straightening tools 621.983
Strain, effects of diseases 616.983
Strains bridge engin'g 624.17
zootechny 636.08211
[1]Strasburg history 943.44
travels 914.344
Strategy **355.4**
Stratification geology 551.81
Stratified ore deposits geol. 553.14
Stratigrafic geology **551.7**
Strato Greek philosofy 185.4
Straw
fibers dom. economy 646.185
foods zootechny 636.08625
Strawberry fruit culture **634.75**
tomato kitchen garden 635.647
tree fruit culture 634.667
Streams
pollution factory waste 628.541
sewage 628.39
[1]Streator, Ill. history 977.327
Street
car stations architec. 725.317
cleaning 628.46
railways engineering 625.6
management 656
sociology 388
sprinkling 628.46
Streets
engineering **625.7**
laying out of, hygiene 614.781
local administration 352.7
trees in san. engin'g 628.48
Strength of
guns mil. engin'g 623.51
materials engineering **620.11**
molec. phys. 539.4
Strengthend beams carpen. 694.3
Stresses.
bridge engineering 624.17
strength of materials 620.11246
Stria corneæ anatomy 611.81325
terminalis " 611.81325
Striae acusticae " 611.81778
Striate body " **611.8132**
Stricker, der Ger. satire 837.21
Stricture of rectum dis. 616.35
Strike geology 551.85
Strikes political economy 331.89
String bean 635.652
Stringd instruments **787**
Strinnholm, A. M. 839.7862
Striped muscles physiol. **612.74**
Strippers, corn 631.3554
Strontium inorg. chem. 546.42
[3]Strophe Eng. prosody 426.7
Strowger telefone system 621.38576
Structural
botany **581**
diseases of brain and cord 616.83
geology **551.8**
Structure
formulae chemistry 541.6
molecular physics 539.1
of the universe astron. 523.11
Structures
composit architec. **721.94**
iron " **721.9**
Strychnia spinal poisons 615.97
Strychnin nervous excit. 615.785

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Stuarts English history 942.06
Irish history 941.56
Stub, Ambrosius Dan. lit. 839.8145
Stubble cutter 631.3552
plow 631.3126
Stucco
external masonry 693.61
village houses architec. 728.64
Stud books 636.0822
Student life and customs 371.8
self government 371.59
Students
biografy 923.7
college expenses 378.368
in U. S. civ. war 973.715
income 378.36
relations to library 021.32
voting by pol. sci. 324.164
Studies
order of curriculum 375.0011
Studios, art architecture 727.7
Study
Bible 220
clubs, relation to library 021.41
self education 374.21
furniture home 645.64
offis 651
methods 371.3
rooms library economy 022.52
school architec. 727.1
equip. 371.621
self culture 374
of special topics see subj.
Stuffing fibers 633.59
Stump
extractor 631.3117
jumper 631.3127
taild sheep, African 636.386
Asiatic 636.385
Sturgeons fishes 597.4
Stuttering 616.87
[1]Stuttgart history 943.47
travels 914.347
Style costume 390
dom. econ. 646
library bildings 022.341
literary rhetoric 808
Styles of type printing 655.24
Stylidieæ botany 583.57
Stylohyoid muscle 611.7344
Styraceæ botany 583.686
[1]Styria, Austria history 943.65
travel 914.365
Stys, hog air pollutions 614.762
Styrian fowls 636.536
sheep 636.3336
[1]Suabia, Germany hist. 943.37
Suabian swine 636.431
Subaqueous
foundations arch. 721.17
bridges 624.157
Subarachnoid region 611.8194
Subclavian arteries 611.134
glands 611.4638
muscle 611.7353
veins 611.1454
Subcontract
labor and wages 331.236
Subcostal arteries 611.1354
muscle 611.7357
Subcrureus muscle 611.738225
Subcutaneous
injections 615.63
tissue admin. of med. 615.63
anatomy 611.779
Subiculum cornu ammonis 611.81314
Subintestinal vein 611.143
Subject
bibliografies 016
catalogs bibliografy 017
library admin. 025.3
Subjectivity knowledge 121
Subjects
allowable for arts degree 378.242
library accessions 025.211
of legislativ action 328.27
of study curriculum 375.01–.9
Sublibrarians lib. econ. 023.72
Sublimation prac. chem. 542.48
Sublime and beautiful 701
Sublingual glands 611.3161
Submarine
armor 627
cables communication 654.5
elec. engin'g 621.3828
mines mil. " 623.9
telegraf communication 654.5
elec. engin'g 621.3828
sociology 384
tunnels mining engin'g 622.26
warfare mil. " 623.9
naval " 623.9
Submarines shipbilding 623.825
Submaxillary ganglion 611.89156
glands 611.3161
Submental glands 611.462
Submerged vessels 623.825
Submersion, asphyxia by 612.2322

Suboccipital nervs 611.8331
Subscapular arteries 611.1341
muscle 611.73716
Subscription
book publishing 655.57
dep't lib. privileges 024.78
libraries 027.3
to creeds eccles. polity 262.8
39 articles Ang. ch. 283.42
Subscriptions
library staf rules 023.93
support 021.95
Subsidence of sewage 628.33
Subsidies
library local support 021.91
state aid 021.832
protection 337.4
public school 379.124
ship 387
wages political econ. 331.225
Subsistence ration 612.3952
Subsoil plow 631.3126
Subsoiling tillage 631.512
Substance metaphysics 111
Substantia
cinerea anatomy 611.8224
nigra " 611.81541
perforata anterior anat. 611.8133
spongiosa " 611.8224
Substations elec. engin'g 621.3126
Substitute system suffrage 324.224
Substitutes
butter 637.28
milk 637.18
Substitutions
algebra 512.86
feeding zootechny 636.08445
Subsurface
condits road engin'g 625.78
irrigation san. " 628.364
packer agriculture 631.3144
Subterranean
telegraf communication 654.4
elec. engin'g 621.31923
Subthalamic tegmental reg. 611.8141
Subways
hygiene of ground 614.782
road engineering 625.4
sanitation 625.47
Success in life ethics 174
Succession
apostolic eccles. pol. 262.11
monarchic pol. science 321.6
Succession
to English crown 342.42
property law 347.6
Succory alkaloid plants 633.78
salads 635.54
Suckers, plant 631.5331
Suckling, J: Eng. poetry 821.41
Suckling zootechny 636.08411
Sucroclastic ferments
physiologic chemistry 612.01515
Suction pump physics 533.85
Suctoria parasitica ectozoa 616.9688
[1]Sudan Africa history 966.2
[1] Egypt " 962.6
Sudoriferous glands 611.774
Sue, Eugene Fr. fiction 843.74
Suetonius Latin literature 878.7
Suez canal engineering 626.9
sociology 386
Suffixes Eng. etymology 422.2
Suffocation physiology 612.232
protec. of life 614.82
[1]Suffolk, co. England hist. 942.64
[1] Mass. " 974.46
[1] N. Y. history 974.725
Suffolk cattle 636.2266
down sheep 636.3235
punch horse 636.1522
swine, large 636.4246
middle 636.4272
small 636.4213
Suffrage
political science 324
U. S. const. amendment
const. hist. 342.739
history 973.82
pol. sci. 324.15
Sufism oriental philosofy 181.5
Sugar
adulterations 614.311
amount in liver 612.35211
apple 634.412
bean 635.653
beets agriculture 633.62
blood physiology 612.35212
cane agriculture 633.61
duty on 337.5
food values 641.13
formation in lactic secre. 612.66432
harvesting 631.5566
house prison Am. revol. 973.372
in milk physiol. 612.66412
manufacture 664.1
milk 637.145

Sugar
nutrition 612.396
organic chemistry 547.3
plants 633.6
refinery 664.1
refining air pollution 614.734
vegetable drugs 615.332
Sugars
absorption in intestin 612.33272
stomach 612.32272
changes in organism 612.3962
chemistry of food 641.13
digestion in intestin 612.3322
stomach 612.3222
in urin 612.46182
tryptic digestion 612.3422
Suggestion hypnotism 134
therapeutics 615.851
Suhm, P. F. Danish misc. 839.8845
Suicide customs 394.8
ethics 179.7
Suits in equity law 347.8
Sulcomarginalis, fasciculus 611.8255
Sulfate
of iron agriculture 631.825
Sulfates agriculture 631.833
chem. tech. 661.6
Sulfids mineralogy 549.3
Sulfur
chemistry 546.22
compounds air pollut'n 614.725
in food physiol. 612.39243
urin " 612.46163
waters econ. geol. 553.74
Sulfuric acid chem. tech. 661.2
Sulky cultivators 631.3163
plow 631.3122
[1]Sullivan co. Ind. hist. 977.241
[1] Mo. " 977.8235
[1] N. H. " 974.27
[1] N. Y. " 974.735
[1] Pa. " 974.859
Sullivan's exped. Am. rev. 973.3356
Sully-Prudhomme Fr. poet. 841.84
Sulphates chem. technol. 661.6
Sulphids mineralogy 549.3
Sulphur, *see* Sulfur
Sulpicians monastic ord. 271.75
Sultans poultry 636.573
Sumac botany 583.292
field crops 633.871
Sumadia swine 636.472
[1]Sumatra history 992.1
travel 919.21
Summer
closing lib. econ. 024.44
dishes cookery 641.592
houses arbors 717
[1] iles, Bermuda history 972.99
iles, Bermuda travels 917.299
pruning 631.5422
resorts amusements 791
architecture 728.52
savory 635.71
schools agriculture 630.7132
lib. econ. 020.712
self education 374.8
squash 635.621
[1]Summers co. W. Va hist. 975.476
[1]Summit co. O. " 977.136
Summons
legislativ bodies 328.353
Sumner, C: Am. oratory 815.33
assault on U. S. hist. 973.7114
Sumner's method naviga. 527.4
Sumptuary laws ethics 177.4
Sumter, Fort, S. C.
naval hist. U. S. civ. war 973.7351
U. S. civil war 973.7311
Sun
baths therapeutics 615.831
cracks geology 551.83
descriptiv astronomy 523.7
dials horology 529.78
dried brick masonry 693.22
effect on tides 525.62
light hygiene 613.19
maps and observations 524.7
motors engineering 621.47
pictures 770
rooms dom. econ. 643.57
stroke injuries 616.988
worship 290
Sunbirds zoology 598.8
[1]Sunbury co. N. B. hist. 971.543
[1]Sunda history 992
Sunday 263
closing lib. and museums 263.7
econ. 024.41
law 263.8
observance 263.4
opening lib. econ. 024.41
school bildings arch. 726.4
libraries 027.8
music 783.7
schools 268
work lib. econ. 023.632
polit. econ. 331.813

Sundays labor holidays 331.817
Sunesen, Anders Dan. poet. 839.8111
Sunken
tubes foundations 721.177
wells " 721.176
Sunn hemp 633.562
Supercilia anat. 611.8476
Superfetation animals 591.169
Superfosfates agric. 631.855
Superheaters, steam 621.1975
Superintendence, bilding 692.61
school 379.15
Superintendent, household 647.21
school 379.153
Superior, Lake travels 917.7
[1] Wis. history 977.512
Supernatural metaphys. 125
theology 231.7
Supernaturalism occultism 133
Supernumerary organs
deformities 617.36
Superphosphates agric. 631.855
Supersaturation chem. 542.62
Superstitions 133
Supervision
administration 351.93
domestic economy 647
of accounts bilding 692.7
Supinators anat. 611.7376
Supper recipes dom. econ. 641.53
Supplies factory storage 621.7962
farm economics 631.171
legislativ 328.364
library admin. 025.116
stock farming 636.08171
Supply and demand 338
Support, library 021.9
Supports
plant 631.345
practical chemistry 542.24
shelf lib. econ. 022.454
Suppuration diseases 617.22
Supraclavicular nerv 611.83334
Suprarenal
artery, middle anat. 611.1366
bodies anatomy 611.45
diseases of 616.45
physiology 612.45
nervs anatomy 611.8393
veins " 611.1463
Supraspinatus muscle 611.73712
Supremacy, papal ch. pol. 262.13
Supreme court reports, U. S. 345.4
Surats goats 636.39854
Sureties commercial law 347.7
Surf boats shipbilding 623.829
Surface
cultivator 631.3164
features of the earth 551.4
geology 551
transportation mining 622.69
Surfaces
of revolution desc. geom. 515.16
warpt " " 515.17
Surfacing road engineering 625.75
Surfit dietetic diseases 616.39
Surfusion prac. chem. 542.63
Surgeon gen. U.S.A. reports 353.6
Surgeons
American revolution 973.375
biografy 926.1
Great war 1914–19 940.475
U. S. civil war 973.775
Surgery 617
Surgical
dressings 617.93
instruments 617.91
operations medicin 617.4
zootechny 636.0897
pathology 617
[1]Surinam, S. Amer. hist. 988
Surinam cherry 634.423
Surnames genealogy 929.4
Surrender of
Burgoyne Am. revol. 973.3333
Cornwallis " 973.3375
Lee U. S. civ. war 973.7384
Surrey, earl of Eng. poet. 821.28
[1]Surrey co. England history 942.21
fowls 636.522
Surrogate courts 347.99
Surveying
geodesy 526.9
subterranean min. eng. 622.14
surveying 526.99
Surveys
general scientific 508.3
sanitary public helth 614.77
social sociology 309.1
travel 914–19
soil 631.47
vocational education 371.429
Survival of fittest evolution 575.6
Surviving
hart physiology 612 1726
organs " 612.0138
Survivors ass'n, confederate 369.171
Susanna, story of Bible 229.6

Susceptibility emotions 157
Susiana ancient history 935.9
Suspended
animation medicin 616.206
physiology 612.0131
Suspension
bridges engineering 624.5
catenary elec. traction 621.33223
of legislators 328.366
rights pol. sci. 323.49
suffrage " 324.17
running gear engin'g 625.21
[1]Susquehanna co. Pa. hist. 974.834
[1]Sussex co. Del. history 975.17
[1] England " 942.25
travels 914.225
[1] N. J. history 974.976
Sussex
cattle 636.2228
down sheep 636.3231
fowls 636.522
sheep 636.3231
swine 636.4212
[1]Sutherland, Scot. history 941.14
Suttee treatm't of the ded 393.9
[1]Sutter co. Cal. hist. 979.434
Sutures anatomy 611.7141
surgery 617.93
Suzerain
states pol. sci. 321.023
Svaning, Hans Dan. misc. 839.883
Svart, P. A. Swed. " 839.7821
[1]Svealand, Sweden history 948.7
travel 914.87
Svedenborg, E. Swed. misc. 839.7836
[1]Swabia, Germany history 943.47
travels 914.347
Swabian swine 636.431
Swabs gun 623.463
Swaledale sheep 636.3257
Swallowing physiol. 612.312
Swallows zoology 598.8
Swamp blueberry 634.737
Swamps
physical geografy 551.49
public helth 614.772
reclamation 631.615
Swans domestic birds 636.681
zoology 598.4
Swastika ecclesiology 246.5
heraldry 929.6
Swearing, legal 347.94
profane ethics 179.5
Sweat, *see* Swet
Sweaters clothing 646.45
Sweating system wages 331.236
Sweden
administration 354.485
antiquities 913.485
architecture 720.9485
botany 581.9485
colleges 378.485
constitutional law 342.485
education 370.9485
finance 336.485
geology 554.85
[1] **history 948.5**
laws 349.485
maps 912.485
religious history 274.85
schools, public 379.485
statistics 314.85
travel 914.85
treaties 341.2485
zoology 591.9485
Swedenborgian church 289.4
lives 922.84
Swedish
architecture, Romanesque 723.48
church sects 284.7
gymnastics hygiene 613.71
[4] **language 439.7**
[5] **literature 839.7**
merinos 636.3678
movement cure massage 615.82
turnip 635.126
Sweep cultivators 631.3162
Sweeping dom. econ. 648.52
Sweet
clover 633.366
corn 635.67
herbs 635.7
Otaheite apple 634.442
potato field crops 633.492
garden " 635.22
sop fruits 634.412
Sweets cookery 641.85
Swet
effect on temperature 612.533
glands anatomy 611.774
disorders of 616.56
physiology 612.792
therapeutics 615.743
Sweters clothing 646.45
Sweting system wages 331.236
Swift, J. Eng. satire 827.52

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Swimming
amusements 796
animal locomotion 591.47
baths architecture 725.73
bladder compar. anat. 611.29
" physiol. 612.767
Swinburne, A. C: Eng. poet. 821.86
Swindling ethics 174.6
law 343
Swine
cress 635.565
diseases of comp. med. 619.4
domestic animals 636.4
Swing
bridges engin'g 624.83
plow 631.3124
Swiss architecture 724.7
cattle 636.237
chard 635.42
cheese, hard 637.3543
sheep 636.333
swine 636.449
Switch
boards, central station 621.317
telefone exchange 621.387
engins, steam 621.13263
Switches
electric engin'g 621.3173
local elec. lighting 621.3287
railway engineering 625.16
telefone 621.3866
telegraf 621.38327
Switzerland
administration 354.494
antiquities 913.494
architecture, history 720.9494
botany 581.9494
colleges 378.494
constitutional law 342.494
education 370.9494
finance 336.494
geology 554.94
[1] **history 949.4**
laws 349.494
maps 912.494
religious history 274.94
schools, public 379.494
statistics 314.94
travel 914.94
treaties 341.2494
zoology 591.9494
[1]Switzerland co. Ind. hist. 977.212
Swivel
bridges engin'g 624.83
Sword exercise 796
Swords side arms 623.4442
war customs 399
[1]Sydenham, Ont. history 971.318
[1]Sydney, Australia history 994.4
travels 919.44
Syenite economic geology 553.52
metamorfic rocks 552.41
plutonic rocks 552.32
Syllogism logic 166
Sylvian aqueduct anat. 611.8156
fissure " 611.81313
Symbolic logic 164
Symbolism Bible 220.6
religious art 246
Symmetric functions alge. 512.84
Sympathetic
nervous system
action on blood vessels 612.1814
salivary secre. 612.31382
anatomy 611.839
diseases 616.88
ganglions anatomy 611.899
physiology 612.89
of hart 612.1782
strikes polit. econ. 331.892
Sympathy emotions 157
Symphony orches. music 785.1
Symphyseotomy obstetrics 618.85
Symptomatic dis. of women 618.17
Symptoms diagnosis 616.07
Synagogs architecture 726.3
Synarthrosis anatomy 611.7292
Synchronizers elec. eng. 621.37491
Synchronology history 902
Synchronous
machinery elec. eng. 621.3134
multiplex telegraf 621.38236
Synclinal structural geol. 551.86
Syncopes, cardiac physiol. 612.1786
Syndicalism polit. econ. 331.87
Synesthesia physiology 612.887
Synod ecclesiastic polity 262.4
[3]Synonyms Eng. language 424
Syntax compar. philology 415.2
[3] **English language 425.2**
Syntheses physiol. chem. 612.01536
Synthesis
chemistry 545.9
electric chemistry 545.97
logic 160

Syphilis
diseases 616.951
public helth 614.547
vaccinal contag. dis. 614.4733
Syphon physics 532.56
[1]Syracuse, N. Y. history 974.766
Sicily anc. hist. 937.8
Syria ancient history 939.4
Coele " " 939.42
[1] modern " 956.9
Upper anc. history 939.41
[4]Syriac language 492.3
text Bible 220.43
Syrian church sects 281.5
[1] desert history 953.9
goat 636.3985
philosofy 181.9
sheep 636.385
Syrmian swine 636.472
Syrtica Regio anc. hist. 939.74
Syrup adulterations 614.311
Systematic
botany 580
catalogs bibliografy 017
theology 230
Systems
construction shipbilding 623.84
drainage agriculture 631.63
economics 330.15
electoral suffrage 324.2
floor bridge engin'g 624.25
irrigation " 631.73
[2] manuals see subject
of aerial lines 621.319222
electric traction 621.3312
transmission 621.31912
incandescent lighting 621.3262
underground lines 621.319232
philosofic 140
road engineering 624.71
scientific economics 330.15
suffrage 324.2
Systole physiology 612.171
Syv, Peder Dan. poetry 839.8133
Szalontaer swine 636.432

T beams, strength of 620.11282
[1]Tabasco, Mexico history 972.6
Tabernacle
biblical antiquities 220.93
sacred furniture 247.2
Tabernacles architecture 725.92
Table
and parlor games 793
anecdotes entertaining 642.48
decoration dom. econ. 642.8
d'hôte table systems 642.51
domestic economy 642
lights lib. bildings 022.763
ship outfit 623.86
systems dom. econ. 642.5
[5] **talk Eng. literature 828**
tipping spiritism 133.9
Tableaux 793
Tables
acoustics 534.9
algebra 512.9
arithmetic 511.9
astronomy 524
electricity 537.9
engineering 620.8
food dom. econ. 641.1
furniture dom. econ. 643.43
library " 022.912
heat 536.9
hydrostatics 532.9
integral calculus 517.39
interest 658
life life insurance 368.3
magnetism 538.9
mathematical 510.8
mechanics 531.9
mercantil 658
molecular physics 539.9
optics 535.9
pneumatics 533.9
sun's motion 525.38
tide 525.69
water walls 721.25
time transportation 656
Tablets, memorial monu. 718
Taboo religion 299.9
Taccaceæ botany 584.26
Tachometers steam eng. 621.1977
Tachygraphy shorthand 653.71
Tacitus, C. C. Latin lit. 878.6
Tackle
blocks and engin'g 621.862
breeching ordnance 623.4362
hydraulic machinery 621.262

Tackle
mechanical engin'g 621.863
Tact mental faculties 151
Tactics, military 355.4
Tactil sense physiol. 612.88
Taenia semicircularis 611.81325
Tahr goat 636.39854
Tail
comparativ anat. 611.99
lymfatics comp. anat. 611.4219
Tailless fowls 636.5882
Tailoring 687
Taine, H. A. Fr. essays 844.83
[1]Taiwan history 951.2
Takigrafy shorthand 653.71
[1]Talbot co. Md. history 975.232
Talbotypes 772
Talent mental faculties 151
[5]Tales Eng. literature 823
Talipes surgery 617.39
Talismans 133.4
Talmud Judaism 296
Talocalcaneum ligament 611.72851
Talus anatomy 611.71871
[1]Tama co. Ia. history 977.756
Tamarind fruit culture 634.461
Tamariscineæ botany 583.158
[1]Tamaulipas, Mex. history 972.1
Tambourine instruments 789.4
Tamil language 494
literature 894
Tammany political ass'n 363
Tampico fibers 633.5772
Tamworth swine 636.4262
[1]Taney co. Mo. history 977.8797
Tangents trigonometry 514.1
Tangerine 634.322
Tank sewers 628.28
Tankage fertilizers 631.846
Tanks
feedwater engin'g 621.1972
railway architecture 725.33
track steam locomotivs 621.1363
Tanning manufactures 675
air pollution 614.745
material agriculture 633.87
Tannins vegetable drugs 615.334
Tansillo, Luigi Ital. poet. 851.43
Tantalates mineralogy 549.71
Tantalum
chemistry 546.88
filaments elec. lighting 621.32642
Taouism 299.5
Tapestry fine arts 746
Tapestry bilding 698.7
Tapetum anat. 611.8423
Tapeworms parasitic dis. 616.964
Tapioca chem. technol. 664.2
Tapping machines 621.955
Tar
chemic technology 668.4
coal chem. tech. 668.7
engineering materials 620.196
paper bags 648.7
road materials 625.7
roofing bilding 695.6
water medicin 615.3252
Tarascan civilization 972.013
Tardiness lib. econ. 023.612
school disciplin 371.52
Tarentaise goat 636.394
Target
practis, naval mil. eng. 623.554
shooting 799
Targums Chaldee versions 221.42
Tariff act, 1824 U.S. hist. 973.54
1828 " 973.55
Dingley " 973.88
McKinley " 973.86
Underwood " 973.913
Wilson " 973.87
causes of U.S. civ. war 973.7118
Tariffs pol. econ. 337
for electricity eng. 621.371
Tarinus, valv of anat. 611.81711
[1]Tarn, France history 944.85
[1] et Garonne, Fr. history 944.75
Tarragon 635.74
Tarsal artery anat. 611.13794
Tarsometatarsal joints 611.7286
Tarsus anatomy 611.7187
Tartar emetic, medicin 615.731
Tartar horses 636.11
sheep 636.385
[1]Tartary history 950
travels 915
Task
work wage bases 331.231
Tasks school disciplin 371.56
[1]Tasmania history 994.6
Tasso, B. Ital. poetry 851.35
T. " " 851.46
Tassoni, A. " satire 857.51
Taste
anatomy 611.87
and criticism fine arts 701
esthetics " 701
facial nerv action 612.81975

Taste
in printing 655.26
mental perceptions 152.4
physiology 612.87
Tatting domestic econ. 646.26
Tattooing customs 391.7
Tautomerism chem. 541.7
Taverns housekeeping 647.94
Tavsen, Hans Dan. poetry 839.812
Tax, military mil. sci. 355.2
titles law 347.2
Taxation
causes of Amer. revol. 973.3114
local government 352.1
political economy 336.2
school support 379.13
Taxes
exemption from 336.29
farm economics 631.112
for raising library funds 021.91
tariff political econ. 337
Taxidermy 579.4
Taylor, Bayard Am. poet. 811.46
Z. presidency of 973.63
[1]Taylor co. Ia. history 977.779
[1] W.Va. " 975.455
[1] Wis. " 977.526
shorthand 653.35
Taylor's campain Mex. war 973.6233
theorem algebra 512.4
[1]Tazewell co. Ill. history 977.354
Tea adulterations 614.347
beverages 641.87
commercial mixing 663.9
cultivation 633.72
hygiene 613.37
physiology 612.3932
rooms dom. econ. 647.95
tax on Amer. revol. 973.3115
Teachers
and teaching 371
biografy 923.7
cards lib. econ. 024.71
institutes education 370.72
library propagandism 021.75
relation to library 021.31
training 370.7
university faculty 378.12
Teaching
freedom of education 378.121
pol. sci. 323.444
[2] of special topics see subject
Tear apparatus anat. 611.8464
physiol. 612.847
Teas, commercial mixing of 663.9
Technical
dictionaries 603
on special topics see subject
education 607
on special topics see subject
school architecture 727.4
schools 378.99
libraries in 371.648
see also special subject
troops military science 358
Technologic schools 607
on special topics see subject
Technology 600
chemic 660
Tectology histology 611.01881
Tedders 631.3531
Teeswater cattle 636.2223
sheep 636.3216
Teeth
animals 591.73
artificial dentistry 617.69
dentistry 617.6
diseases of 617.6
human anatomy 611.314
physiology 612.311
Teetotalism temperance 178.2
Tegel, E. G. Swed. misc. 839.7822
Tegmentum anatomy 611.81543
Tegnér, E. Swed. poetry 839.7163
[1]Tehama co. Cal. hist. 979.427
Tehuantepec
[1] Mexico history 972.7
ship canal engineering 626.9
Teichmann's crystals 612.11116
Telæ choroideæ anat. 611.8192
Telautograf elec. eng. 621.3826
Telefone
bills, legislativ 328.364
booths lib. bildings 022.683
communication 654.6
electric engineering 621.385
electricity 537.82
electrophysiology 612.01442182
instruments elec. eng. 621.386
sociology 384
Telefones dom. econ. 643.6
interdep't lib. 022.948
school bldgs 371.629
Telefony
and telegrafy, combined 621.38295
military 623.733
wire engineering 621.385
wireless " 621.3845

Telegraf
bildings architecture 725.23
bills, legislativ 328.364
codes writing 652
engineering 621.38215
electric applications 537.81
finding longitude by 525.47
military signals 623.732
sociology 384
Telegrafic
construction commun. 654.4
engineering 621.3192
instruments 654.1
engin'g 621.383
Telegrafone useful arts 621.389
Telegrafs administration 351.817
Telegrafy
and telefony, combined 621.38295
communication 654
wire engineering 621.382
wireless engineering 621.3842
Telemeters, electric 621.379
gunnery 623.54
surveying 526.91
Telencephalon anat. 611.813
Teleology metaphysics 124
Teleostei fishes 597.5
Telepathy mind and body 134
Telephone, *see* Telefone
Telephot photografy 778
Telepost elec. eng. 621.38247
Telescope astronomy 522.2
optics 535.83
zenith astron. 522.43
Telescopes famous 522.29
Telferage mech. engin'g 621.867
Telfers " " 621.868
Tellez, Gabriel Sp. drama 862.33
Tellurates mineralogy 549.77
Tellurids " 549.3
Tellurium chemistry 546.24
Telpherage mech. engin'g 621.867
Telphers " " 621.868
[1]Temiscouata co. Que. hist. 971.476
Temper ethics 179.8
Temperament piano 786.2
Temperaments 137
Temperance
ethics 178
hygiene 613.81
in laboring classes 331.84
legislation 178.4
reformatories 178.6
Temperate regions agric. 631.0912
Temperature
animal heat 612.5
conditions of life 577.4
elevated hygiene 613.64
hygiene 613.18
in diseases diagnosis 616.075
physiol. 612.556
influence on respiration 612.225
low agriculture 632.11
mesurement physics 536.5
physiol. 612.51
nitrogen excretion 612.461235
of air meteorology 551.52
body physiology 612.56
earth geology 551.12
liver physiology 612.355
soil agriculture 631.436
urin physiology 612.46113
pathology 616.075
physiologic chem. 612.01535
physiology 612.5
sense physiology 612.882
therapeutics 615.832
variable hygiene 613.64
Tempering
manufactures 671
molecular physics 539.54
Templars 366
knights 929.712
Temples architecture 726.1
student soc. 371.86
Temporal
artery, superficial anat. 611.13327
bone anatomy 611.7153
lobe " 611.81313
muscle " 611.73272
power papacy 262.13
relig. history 270.4
Temporary halls architec. 725.92
Temporomandibular joint 611.724
Temporomaxillary joint 611.724
Temporosphenoid lobe 611.81313
Temptation doct. theol. 233.2
Temptations of laboring classes 331.84
Tenants law 347.2
Tendency legisla. pol. sci. 328.24
Tender, legal paper money 332.5
Tenders, locomotiv 621.136
Tendons anatomy 611.74
diseases of 616.75
physiology 612.755
sheaths of anatomy 611.75
diseases of 616.76

Tenements
  architecture **728.1**
  domestic economy 647.91
  hygiene 613.53
  laboring classes 331.83
Teneriffe description 914.68
Tenia anatomy 611.81325
Tennessee, U. S.
  admission U. S. history 973.43
[1] history 976.8

For military history, see subdivisions of Special campains and Military history under 973.52, 973.7 and 973.89

  secession U. S. history 973.713
  travel 917.68
Tennis, lawn 796
  parlor 794
Tennyson, A. Eng. poetry 821.81
Tenotomy surgery 617.47
[3]Tense signs Eng. etymol. 422.8
[3]Tenses Eng. syntax 425.8
Tension engineering 620.1124
Tensor
  fasciaë latae anat. 611.73815
  vaginae femoris " 611.73815
Tent caterpillars pests 632.78
  life hygiene 613.67
  making mech. trade 689
Tenth nerv **anatomy** **611.83191**
  physiology **612.81991**
Tenting outdoor sports 796
Tentorium cerebelli anat. 611.8195
Tents
  military science 355.81
  prehistoric dwellings 571.86
Tenure of
  land law 347.2
  polit. economy **333**
  offis civil servis 351.4
  library economy 023.2
  teachers 371.142
Teratology
  anatomy 611.012
  animals 591.2
  monstrosities 591.159
  natural history of man 573.9
  plants 581.22
  surgery **617.3**
Terbium inorganic chem. 546.653
Terence Latin drama 872.5
Teres major anatomy 611.73715
  minor " 611.73714
Teresa de Jesus Span. misc. 868.33
Terminal cone of spinal cord 611.8216
Terminals, voltaic eng. 621.3526
Terminations, nerv **histol.** **611.01886**
Terminology anatomy 611.0114
  economics 330.14
  metaphysics 112
  physiology 612.0114
  solutions 541.3412
Termites zoology 595.73
Terms schools 371.23
  definitions lib. econ. 020.14
Ternstrœmiaceæ botany 583.166
Terra cotta
  and iron architecture 721.97
  art 738
  colums architecture 721.34
  construction masonry 693.3
  manufactures 666.6
  piers architecture 721.34
  porous, constr. masonry 693.4
  works architecture 725.48
Terra del Fuego travels 918.2
[1] di Otranto, Italy hist. 945.76
  trav. 914.576
Terraces phys. geology 551.35
Terracing 631.613
Terrapin culture 639.3
  zoology 598.13
[1]Terre Bonne co. Que. hist. 971.424
[1] Haute, Ind. " 977.245
Terrestrial
  magnetism 538.7
  means of find'g longitude 525.47
Territorial representation 328.3342
Territory
  acquisition **pol. sci.** **320.12**
Tertiary age geology 551.78
Tertullian philosofy 189.2
Tessin, K: G. Swed. misc. 839.7841
Test
  laws Eng. relig. hist. 274.2
  tubes prac. chemistry 542.231
Testacea **zoology** **594**
Testament, New **225**
  Old **221**
Testamentary law 347.6
Tester, milk 637.1276
Testes **anatomy** **611.631**
  physiology **612.616**
Testi, Fulvio Ital. poetry 851.53
Testicles **anatomy** **611.631**
  physiology **612.616**
Testimony
  expert evidence 347.94
  state control of 614.23

Testimony
legal evidence 347.94
probabilities 519.3
Testing, butter 637.225
cheese 637.325
milk 637.1276
Tests
boiler manufacture 621.18413
operation 621.1947
public safety 614.837
chemic analysis 543
educational suffrage 324.14
electric engineering 621.37
of engineering materials 620.112
ordnance stores 623.4822
Testudinata zoology 598.13
Tetanic muscular contract'n 612.74113
Tetanus diseases 616.854
surgery 617.27
Tetracorolla 593.61
Teutonic
knights 929.713
minor languages 439
literatures 839
mythology 293
race ethnology 572.83
Texas
[1]co. Mo. history 977.884
state
annexation Mex. war 973.621
resolution 973.58
U. S. history 973.61
[1]history 976.4
independence U. S. hist. 973.56
secession " " 973.713
For military history, see subdivisions of Special campains and military history under 973.62, 973.7 and 973.89
travel 917.64
steer 636.2821
Texel cheese 637.3551
sheep 636.3311
Textbooks
[3] for writ'g verse Eng. pros. 426.8
free public schools 379.153
instruction 371.32
state public schools 379.156
Textil
fabrics dom. economy 646.1
inspection 614.37
manufactures 677
prehist. archeol. 571.54
factories architecture 725.41
fibers agriculture 633.5
Textil
hangings bilding 698.7
dom. economy 645.2
roofing bilding 695.8
Texts
comparativ philology 418
[3] English philology 428.8
[3] **for learning Eng. lang. 428**
original Bible 220.4
Thaarup, T: Dan. drama 839.8255
Thackeray, W: M. Eng. fict. 823.82
Thalamencephalon anat. 611.814
Thalamic radiation " 611.8147
Thalamus, optic " 611.8147
Thales Greek philosofer 182.1
Thallium
accumulators elec. eng. 621.357
inorganic chemistry 546.52
Thallophyta 589
Thames
battle U. S. war of 1812 973.5235
river, Eng. description 914.22
Thanksgiving
day customs 394
schools 371.365
sermons 252.6
Thar goat 636.39854
Thasos ancient history 939.11
[1] modern " 949.91
Thatch roofing 695.9
Theater in library bilding 022.651
Theaters amusements 792
architecture 725.82
ethics 175.2
hygiene 613.55
Theatricals, private 793
Theban goat 636.39862
supremacy Gk hist. 938.06
[1]Thebes, Egypt history 962.3
travel 916.23
Theft law 343
Thefts of library books 024.86
Theism natural theology 211
Themistocles Gk letters 886.1
Theocritus Gk lyric poetry 884.6
Theodicy God 231.8
Providence 214
Theodolite surveying 526.91
Theodosius 3 Byzant. hist. 949.501
Theognis Greek poetry 881.1
Theologians biografy 922
Theologic
doctrins 230
education religion 207

Theologic
  seminaries architect. 727.4
  religion 207
Theology 200
  biografy of 922
  natural 210
Theophanies 231
Theophrastus anc. philos. 185.2
Theoretic astronomy 521
  chemistry 541
  ethics 171
Theories of
  construction bilding 690.1
[2] special subject see subject
Theosofy 212
Therapeutics 615.5
Thermal springs seismology 551.23
Thermic
  centers physiology 612.535
  effects of muscular
    contraction 612.7453
  phenomena of hart action 612.173
    nerv centers 612.814
    nervs 612.8224
  topografy physiology 612.563
Thermochemistry 541.36
Thermodynamic value, *see*
    Value, thermodynamic
Thermodynamics 536.7
  applied steam engin'g 621.101
Thermogenesis
  conditions affect'g physiol. 612.54
  physiology 612.51
Thermolysis physiology 612.52
Thermometers
  agriculture 632.112
  electric engineering 621.379
  manufacture 681
  physics 536.51
  steam plant 621.1977
Thermometry
  meteorology 551.52
  pathology 616.075
  physics 536.51
  physiology 612.56
Thermoscope 536.5
Thermotaxis physiology 612.53
Thermotherapy 615.832
Thessalonians 1 Bible 227.81
  2 " 227.82
Thessaly ancient history 938.2
Theuerdank Ger. poetry 831.36
Thian-Shan, E. Turkestan 915.16
Thiard, Pontus de Fr. poet 841.35
Thibaut 4 " " . 841.16
[1]Thibet, China history 951.5
Thiers, presidency Fr. hist. 944.08
Thigh anatomy 611.982
  lymfatics of 611.42182
  muscles 611.7382
Thigmotaxis mesology 612.014478
Thilorier apparatus chem. 542.79
Thinning fruit pruning 631.54227
  of branches " 631.54214
Third
  nerv anatomy 611.8313
  physiology 612.8193
  rail electric lines 621.3323
    systems power deliv. 621.33156
  ventricle anatomy 611.8148
Thirst and hunger physiol. 612.3913
Thirty
  day bills legislation 328.375
  years war Europ. hist. 940.24
    Ger. " 943.041
    Scand. " 948.04
Thirty-nine articles creeds 238.3
Thistles agriculture 632.58
  botany 583.55
Thomas à Kempis 242.1
  Aquinas 189.4
Thompson, D. P. Am. fict. 813.31
Thomson, J. Eng. poetry 821.56
Thomsonianism cures 615.855
Thoracic
  aorta anatomy 611.135
  arteries " 611.1341
  bones " 611.712
  duct " 611.424
    diseases of 616.42
    physiology 612.4231
  esophagus anatomy 611.3291
  ganglions, sympathetic
    anat. 611.8392
    physiol. 612.892
  glands anatomy 611.464
  lymfatics anatomy 611.4214
  muscles " 611.735
  nervs " 611.834
  vertebrae " 611.7115
Thoracostraca zoology 595.38
Thorax anatomy 611.94
Thoreau, H: D: Am. misc. 818.31
Thorild, T. Swed. poetry 839.7155
Thorium inorgan. chem. 546.84
Thornheded worms diseases 616.966

Thornton shorthand 653.55
Thoro bass music 781.3
Thorwald discov. of Amer. 973.13
Thought faculty 153
new 131
transference 134
Thousand Islands, N. Y.
[1] history 974.758
travel 917.4758
Thracia ancient history 939.89
Thred worms parasit. dis. 616.965
Three
bodies, prob. of astron. 521.13
phase elec. machinery 621.313323
trac. systems 621.331433
transmis. " 621.319133
wire elec. " a.c. " 621.3191323
" " d.c. " 621.319123
incandescent light 621.3262
Threshers agriculture 631.361
steam engin'g 621.156
Threshing 631.5612
Thrift laboring classes 331.84
Thrips pests 632.73
Throat
anatomy 611.93
diseases 616.31
protection in factories 628.512
surgery 617.53
Thrombin physiology 612.11512
Thrombosis, venous 618.77
[1]Throndhjem, Norway hist. 948.4
travel 914.84
Thrones arch. accessories 729.93
Throttle, locomotiv 621.1349
Throttling engins 621.1642
Thrust
balancing steam turbins 621.16536
hoe 631.3152
steam turbins 621.16536
Thucydides Greek liter. 888.2
Thugs 299.11
Thulium inorg. chem. 546.697
Thum extensors anat. 611.73768
flexor, long " 611.73756
muscles " 611.73773
Thunder
[1] **Bay dist. Ont. hist. 971.312**
physics 537.4
storms meteorol. 551.55
Thurible sacred ornam'ts 247.9
[1]Thuringia, Germany hist. 943.22
Thuringian fowls 636.538
Thyme 635.71
Thymelæaceæ botany 583.933
Thymus anatomy 611.43
diseases of 616.43
physiology 612.43
Thyrocervical trunk 611.1347
Thyrohyoid muscle 611.7335
Thyroid
artery, superior anat. 611.13321
body anatomy 611.44
diseases of 616.44
physiology 612.44
veins anatomy 611.1451
Thyroidectomy physiology 612.445
surgery 617.44
Thyroids, aberrant anat. 611.445
Thyrotomy physiology 612.445
surgery 617.44
Thysanura pests 632.71
zoology 595.71
Tian-Shan description 915.16
[1]Tibet, China history 951.5
travel 915.15
Tibet, goat 636.3985
Tibia anatomy 611.7185
Tibial
artery, anterior anat. 611.13787
posterior " 611.13791
glands, anterior " 611.4684
muscle " " 611.73841
posterior " 611.73857
vein " 611.14737
Tibiofibular
joint, inferior anatomy 611.72841
ligaments " 611.72838
trunk " 611.1379
Tibiotarsal ligament " 611.72844
Tibullus, A. Lat. poetry 874.3
Tic douloureux diseases 616.87
Tichborne trial crim. law 343.1
Tickling physiology 612.883
Ticks animal parasites 616.9685
Ticonderoga
battle Amer. revol. 973.3314
capture U. S. col. hist. 973.26
evacuation Amer. revol. 973.3332
Tide tables 525.69
waters law 347.7
Tides
astronomy 525.6
physical geografy 551.46
protection from eng. 627.5
Tieck, L; German fiction 833.73
Tieplates railway engin'g 625.14
Ties, railroad 625.14

[1]Tiffin co. O. history 977.1241
Tigers zoology 599.7
Tight boots hygiene 613.484
lacing " 613.484
Tile
and iron structures arch. 721.97
construction bilding 693.3
drains reclamation 631.62
floors, hollow architec. 721.63
hollow, construction bldg 693.4
roofing " 695.3
strength of materials 620.14
Tiles
bilding material 691.4
colord roofs 721.56
floor covering 721.68
manufactures 666.7
with iron ceilings arch. 721.73
Tiliaceæ botany 583.19
Tiling masonry 693.3
roofing 695.3
Till physical geology 551.33
Tillage 631.5
Timber
architecture 724.7
bilding material 691.1
forestry 634.9
gratings foundations 721.162
manufacture 674
piles foundations 721.142
platforms " 721.162
preservation of bldg 691.1
strength of materials 620.12
trade 338.1
Timberd, half, walls arch. 721.21
Timbering
foundations architec. 721.12
bridges 624.152
mines 622.28
Timbre, voice physiol. 612.784
Timbuctoo travels 916.62
Time
chronology 529
cosmic 529.77
distribution of 529.76
finding at sea 527.3
keepers watchmaking 681
limit of library loans 024.62
lost library servis 023.641
metaphysics 115
of day hygiene 613.13
extra library loans 024.72
standard 529.75
systems and standard 529.75
Time
tables railroad 656
wage bases 331.232
Times
feeding zootechny 636.08442
Timon Greek philosofers 186.1
Timothy 1 Bible 227.83
2 " 227.84
Timothy forage crops 633.24
Tin
chemistry 546.81
group chemistry 546.8
manufacture 671
metallurgy 669.6
mining 622.34
prehistoric 571.31
ores econ. geology 553.45
roofing bilding 695.4
Tinsel dom. economy 646.19
Tinting laundry process 648.27
Tintypes photografy 772
[1]Tioga co. N. Y. history 974.777
[1] Pa. " 974.856
Tippecanoe
battle U. S. war of 1812 973.51
[1] co. Ind. history 977.295
[1]Tipperary, Ireland history 941.92
Tips political economy 331.238
[1]Tipton co. Ind. hist. 977.255
Tiraboschi, G. It. essays 854.63
Tirant lo Blanch Catal.fict. 849.933
Tires railway engin'g 625.21
rubber manufacture 678
Tirso, de Molina Span.dram. 862.33
Tissue
cellular, absorption by 612.388
connectiv anatomy 611.76
diseases of 616.77
histology 611.0182
physiology 612.75
subcutaneous admin. of medicin by 615.63
Tissues
animal histology 591.8
elec. resistance physiol. 612.795
respiration of " 612.26
uric acid in " 612.461259
vegetable histology 581.8
Titanium
inorganic chemistry 546.82
oxid arcs elec. lighting 621.3256
Tithes cleric support 254
taxation 336.21

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Title
catalog lib. admin. 025.3
to property, law of 347.2
Titles
and duties lib. economy 023.7
changed book bibliog. 014
of honor 929.7
Titration solution
quan. anal. 545.2
Titrometric methods " " 545.5
Titus Bible 227.85
[1]Tlascala, Mexico history 972.4
Toadfish batrachians 597.6
fishes 597.5
Toads 597.8
Toadstools botany 589.22
Toasts entertainments 642.48
Tobacco
cerebro-cardiac poisons 615.99
cultivation 633.71
ethics 178.7
hygiene 613.84
inspection of pub. helth 614.36
internal revenue 336.27
manufacture 679
pipes manufactures 679
state monopoly 336.19
[1]Tobago, W. Indies hist. 972.98
Tobit Apocrypha 229.2
Tobogganing sports 796
Toe joints anatomy 611.7289
Toes " 611.987
extra deformities 617.36
Toggenburg goat 636.3937
Toggle joints engin'g 621.825
Toilet
articles customs 391.6
domestic economy 646.7
room furnishings 645.68
rooms dom. economy 643.52
lib. bildings 022.686
Token money numismatics 737
pol. econ. 332.4
[1]Tokio history 952
travel 915.2
[1]Toledo, O. history 977.113
Toleration, religious ethics 172.3
[1]Tolland co. Ct. history 974.64
travels 917.464
Tollens, H. Dutch poetry 839.3154
Tolls, road and bridge 352.7
Toltec civilization hist. 972.011
Tomas, Bishop Swed. poet 839.7112
Tomato 635.64
tree 634.7761
worms pests 632.78
Tomb burial pub. helth 614.612
Tombs cemeteries 718
disposal of ded 393.1
Tomich Catalan misc. 849.9821
Tommaséo, N. Ital. essays 854.78
[1]Tompkins co. N. Y. hist. 974.771
Tone color acoustics 534.5
physiology 612.85874
Tones, distinction of phys. 612.85874
Tongue, *see* Tung
Tonic
muscular contraction 612.74114
sol-fa vocal music 784.9
Tonicity reflex movements 612.82933
Tonics aids to digestion 615.7341
[1]Tonkin history 959.9
swine 636.485
Tonnage gaging 389
shipping 656
Tonquin, *see* Tonkin
Tonsillae intestinales 611.3443
Tonsils anatomy 611.322
diseases of 616.31
physiology 612.3122
Tools
agricultural 631.3
bilding 690.7
bronze age 571.35
machine 621.9
mechanic trades 680
mechanical engineering 621.9
printing 655.21
stone age 571.25
Toothake dentistry 617.65
Tootht gears 621.83
Top grafting 631.54144
Topelius, Z. Swed. fiction 839.7366
Topical method instruction 371.36
Topinamber 635.24
Topografic drawing 526.98
geodesy 526.9
Topografy
aerial 629.145
hygiene of ground 614.77
maps 912
military 623.71
surveying 526.99
thermic physiology 612.563
Toppers, corn 631.3555
Torches chemic technol. 665.1
military engin'g 623.45442

Torelli, Achille Ital. drama 852.86
Tories Amer. pol. parties 329.8
revolution 973.314
Eng. polit. parties 329.942
Tornadoes meteorology 551.55
[1]Toronto, Ont. history 971.3541
Torpedo
boats naval engineering 623.825
shells ordnance 623.4517
Torpedoes
explosivs 662.2
land military engin'g 623.26
naval " " 623.95
Torrens system 333.3
Torres Naharro, B. 862.39
Torsion engineering 620.11243
molecular physics 539.3
Tortoises zoology 598.13
Torts law 347.5
Torture customs of war 399
law 340.3
persecutions 272
Total abstinence 178.2
depravity doc. theol. 233.2
Totemism 392
Touch anatomy 611.88
magnetism 538.2
mental faculties 152.5
physiology 612.88
sensory functions 612.82559
[1]Toulouse history 944.86
travels 914.486
goose 636.5984
[1]Touraine, France history 944.54
travel 914.454
Tournaments customs 394.7
Toussaint, A.L.G.B. Dut.fic. 839.3356
Towers
aerial elec. lines 621.319225
architectural design 729.36
cooling steam plants 621.19764
suspension bridge 624.56
water fire extinction 614.846
waterworks 628.13
Towing canal engineering 626.7
Town halls architecture 725.13
offisers local govt 352
Townley plays Eng. dram. 822.13
Towns
German local govt 352.0435
government 352
laying out of hygiene of
ground 614.781
sanitation of 628.4
Township Ger. local gov. 352.0436
Toxic action of blood 612.11822
swet 612.79212
Toxicity, urinary 612.462
Toxicology therapeutics 615.9
Toxins
in blood physiology 612.11821
physiology 612.3988
Toy
dogs 636.765
pigeons 636.5965
high class 636.5962
Toys amusements 793
domestic economy 649.55
inspection of pub. helth 614.37
Trachea anatomy 611.231
diseases of 616.23
physiology 612.2152
Tracheal respiration zool. 591.126
Tracheotomy surgery 617.42
Trachoma eye diseases 617.77
Trachyte lithology 552.24
Track elec. engineering 621.333
road " 625.14
scales " 625.18
tanks " 625.16
locomotiv 621.1363
Trackless trolley elec. eng. 621.33225
Tract cathedral music 783.23
societies 206
Tractarianism Angl. ch. 283
Traction
electric engineering 621.33
engin agriculture 631.3123
engins, steam 621.14
Tractors, farm 631.372
metallic cures 615.856
Tracts, religious, practical 240
on special topics see topic
Trade
acceptance pol. econ. 332.7
administration 351.82
balance of commerce 382
boards of architecture 725.25
commerce 381
catalogs bibliografy 015
depressions commerce 381
money 332
production 338
domestic 381
foren 382
free 337.2
list of books, publishers 015

Trade
marks copyright 655.62
law 347.7
patents 608
sales lib. book buying 025.223
schools 607
slave 326.1
winds meteorology 551.51
Trades
hygiene **613.6**
labor in special 331.818
mechanic **680**
unions polit. econ. 331.88
useful arts **680**
Trading companies 338.7
stamps 658
Traditions
ecclesiastic polity 262.7
folklore 398.1
Traduction orig. of the soul 129.2
Traffic
commerce 656
in intoxicating drinks 178.4
[5]**Tragedies Eng. literature** **822**
Train
boats shipbilding 623.8234
Training
classes agric. educ. 630.775
domestic animals **636.088**
laboring classes pol. ec. 331.86
library library schools **020.7**
qualifications 023.532
of library executiv 023.42
offis law education 340.7
physical hygiene **613.7**
outdoor sports 796
school hygiene **371.7**
plants 631.546
schools for teachers **370.7**
teachers 371.12
[2] special topics, see subject
Trains railroad engin'g 625.2
Traitors
American revolution **973.381**
biografy 923.41
Trakehner horse 636.143
Tramps pauperism 339
Tramways
city transit 388
electric engineering **621.33**
engineering 625.6
mining engineering 622.65
Trance hypnotism 134
Transactions gen. society 060
[2] special topics, see subject
Transcendentalism 141
Transcriptions
orchestral music 785.9
piano " 786.48
Transfer
boards, telefone **621.3874**
systems, telefone 621.38563
Transferable
vote suffrage 324.224
Transformation
of coordinates, loci in space 516.34
plane loci 516.14
spheric astronomy 522.73
Transformations algebra 512.86
Transformer
panels elec. engin'g 621.31725
substations " " 621.31263
Transformers, auto el.eng. 621.3144
elec. eng. **621.3143**
Transfusion of blood
physiology 612.1163
therapeutics 615.65
Transit
bildings astronomy 522.13
circle astron. instrum. **522.34**
finding longitude by 525.48
time by 529.71
instrument **522.34**
local sociology 388
mounting 522.27
out of meridian 522.44
Transits astronomy **523.9**
of Mercury 523.91
Venus **523.92**
Translating, art of 808
Translations *Class with originals*
principle of comp. phil. 418
Transliteration
comparativ philology 411
in cataloging 025.3
Transmigration of souls 129.4
Transmission
heredity evolution 575.1
hygiene **613.9**
machinery of agric. **631.37**
engin'g **621.8**
of disease pub. helth 614.43
elec. power engin'g **621.319**
physics 537.84
force physics **531.8**
gases " 533.1

Transmission
heat " 536.2
power mech. eng. 621.8
steam " " 621.185
Transmitted disease hyg. 613.93
Transmitters
telefone 621.3863
wireless telefone 621.38461
Transmutation
of energy physics 531.6
metals chemistry 540.1
species evolution 575.2
Transoms gun mounts 623.4351
Transpiration
cutaneous physiology 612.793
of animals 591.129
plants 581.129
Transplanters 631.336
Transplanting
agriculture 631.536
organs physiology 612.602
teeth dentistry 617.68
Transport
agriculture 631.37
bildings architecture 725.3
butter 637.235
cheese 637.335
criminal law 343.2
in mines 622.6
military 355.6
resources 355.27
milk 637.135
of animals animal hyg. 614.96
fertilizers agric. 631.817
the ded pub. helth 614.63
sociology 380
useful arts 656
Transporter
bridges engin'g 624.86
Transports shipbilding 623.826
Transposition of parts surg. 617.38
Transubstantiation 265.3
Transudations physiology 612.381
[1]Transvaal, Africa history 968.2
Transversalis cervicis anat. 611.7313
Transversals mod. geom. 513.52
Transverse
mesocolon anatomy 611.383
system shipbilding 623.84
Transversospinales anat. 611.7316
Transversus thoracis anat. 611.7358
[1]Transylvania history 943.92
Transylvanian sheep 636.335
Trap economic geology 553.57
lithology 552.28
Trapassi, Pietro Ital. dram. 852.57
Trapezium anat. of bones 611.71775
nervs 611.81776
Trapezius muscle anat. 611.73111
Trapezoid body " 611.81776
bone " 611.71776
Trapping business 639.1
Trappists monastic orders 271.125
Traps
agriculture 632.9
domestic economy 648.7
in sewers sanitary eng. 628.256
steam pipe 621.1855
zootechny 636.081111
Trash, domestic sanitation 628.44
Traumatic fever surgery 617.26
Traumatism 616.982
[1]Travancore, India history 954.8
Travel clubs self educ. 374.21
cookery 641.575
hygiene 613.69
Travelers
[3] conversation books, Eng. 428.2
lives 923.9
manuals for 910.2
protection of pub. helth 614.86
Traveling
art of 910.2
bridges engin'g 624.86
clubs self educ. 374.25
cranes engin'g 621.874
grates " 621.18362
libraries lib. econ. 021.65
school 371.642
salesmen suffrage 324.247
Travels, general 910
scientific 508.3
special, see subject
Traverse tables surveying 526.91
Trawlers boatbilding 623.828
Trays, book lib. econ. 022.943
Treadmills mechan. eng. 621.46
punishments 343.2
Treason Amer. revolution 973.381
law 343
Treasury
notes paper money 332.5
U. S. administration 353.2
Treaties
international law 341.2

Treatises
Am. and Eng. priv. law 347
on special topics see subject
Treating temperance ethics 178.3
Treatment of
captivs intern'l law 341.3
war customs 399
disease 616
the ded customs 393
pub. helth 614.6
Treaty
Bering sea U. S. hist. 973.86
Hawaiian " 973.86
of Paris Amer. revol. 973.317
Versailles Great war 940.314
U.S.war w.Spain 973.891
Washington 341.273
peace American revol. 973.317
powers legislativ bodies 328.346
Santo Domingo 973.82
with Spain 1795 U.S.hist. 973.43
1898 " 973.891
[1]Trebizond, Asia Turk. hist. 956.5
Tredmills mech. engin'g 621.46
punishments 343.2
Tree
conveyors 631.3366
cranberry 634.745
products harvesting 631.5568
tomato 634.7761
Trees
botany 582
forestry 634.9
fruit culture 634
in streets, sanitation 628.48
layering 631.5346
ornamental 715
road engineering 625.77
tools for 631.34
Trefining surgery 617.51
Trellises plant support 631.3453
training 631.5463
Tremandreæ botany 583.142
Trematoda parasitic dis. 616.963
Tremellinæ botany 589.224
Tremors, muscular physi. 612.7464
[1]Trempealeau co. Wis. hist. 977.549
Trench layering 631.5342
Trenches, defense mil. eng. 623.34
Trenching mil. engin'g 623.24
Trent
affair U. S. civil war 973 751
council of relig. history 270.6
creed of Pius 4 238.2
Trenton, N. J.
battle Amer. revol. 973.3326
[1] history 974.966
Trepanning surgery 617.51
Trepassey, ship Am. revo. 973.357
Trephining surgery 617.51
Trestle bridges mil. eng. 623.653
Trestles
bridge engineering 624.24
Tresury
notes paper money 332.5
U. S. administration 353.2
Trial
borings foundations 721.11
by ordeal law 340.3
civil 347.9
court martial 344
criminal 343.1
ecclesiastic 262.9
jury 340.4
state 343.1
Trials
civil law 347.91
criminal " 343.1
in library servis 023.57
military law 344
Triangle musical instrum. 789.3
Triangles
differences of trigonom. 514.8
plane geometry 513.14
trigonometry 514.5
practical chemistry 542.24
spheric geometry 513.41
trigonometry 514.7
Triangularis sterni anat. 611.7358
Triangulation
computation of geodesy 526.4
field work " 526.3
net theory of least sq. 526.53
Triassic age geology 551.76
Tribes form of state 321.2
Tribunes arch. accessories 729.92
Triceps brachii anatomy 611.73724
surae " 611.73854
Trichinæ econ. zoology 591.69
parasitic dis. 616.965
Trichiniasis public helth 614.562
Trichoptera entomology 595.74
Trickery bus. ethics 174.7
Tricks, card amusements 793
sleight of hand 791
Tricuspid valvs anat. 611.12646
Tricycling 796

[1]Triest history 943.68
travels 914.368
Triewald, S. von Swed. poet. 839.7138
Trifacial nervs anat. 611.8315
Trifoliae forage crops 633.373
Trifoliate orange 634.321
Trigeminus
nerv anatomy 611.8315
nucleus " 611.8174
physiology 612.8195
Trigonometric leveling 526.38
Trigonometry 514
Trilobites paleontology 565.39
zoology 595.39
Trimmer, hedge 631.3421
Trimming pruning 631.5423
[1]Trinidad history 972.98
Trinitarians mon. order 271.79
[1]Trinity co. Cal. hist. 979.414
Trinity doctrinal theology 231
Trios vocal music 784.83
Tripe-cleaning air pollu. 614.742
Triple expansion
engins 621.11266
stationary engins 621.1647
Triplets obstetrics 618.25
Tripods
field work geodesy 526.32
practical chemistry 542.24
[1]Tripoli, Africa history 961.2
Trips, school 371.393
Triquetrum, os anat. 611.71773
Trissino, G. G. Ital. drama 852.33
Tristegineae forage crops 633.281
Tritons zoology 594.3
Trituration prac. chem. 542.22
Triumphs student life 371.89
Triurideæ botany 584.71
Troas ancient history 939.21
Trochilidæ ornithology 598.8
Trochlear
nervs anatomy 611.8314
physiology 612.8194
nuclei anatomy 611.8155
Trochoid joint " 611.72965
Trofic nervs
of skin physiology 612.798
physiology 612.818
Trofs
pneumatic chemistry 542.73
voltaic cels engin'g 621.3521
Trojel, P. K. Dan. satire 839.8752
P. M. " " 839.8751
Trolley
arms elec. traction 621.3347
lines " " 621.3322
systems deliv. of power 621.33152
Trolleys elec. traction 621.3347
Trollope, A. Eng. fiction 823.87
Trombone wind instrum. 788.2
Trompes prac. chem. 542.77
[1]Tromso, Norway hist. 948.4
Troops
U. S. history civil war 973.74
Mex. " 973.624
revolution 973.34
Span. war 973.894
war of 1812 973.524
Trophic, *see* Trofic
Tropic almond 634.555
plants 581.9
Tropics
agriculture 631.0913
clothing suitable to 646.092
cookery for 641.592
hygiene 613.11
Trotter horse 636.12
Trotting racing 798
Troubadours 849.1
Troughs
pneumatic chemistry 542.73
voltaic cells engin'g 621.3521
Trousers 646.43
Trout culture fishing 639.3
fishing sports 799
Trouvères Fr. literature 841.1
Trowel, garden 631.3112
Troy ancient history 939.21
[1] N. Y. " 974.741
Troya, Carlo Ital. essays 854.73
Truancy school disciplin 371.52
Truces international law 341.3
Truck farming 635
system labor 331.235
Trucks
book library econ. 022.942
electric motor cars 621.3347
farm transport 631.3735
railway engineering 625.21
Truffles gardening 635.8
[1]Trumbull, J: Amer. poet. 811.21
Trumbull co. O. history 977.138
ship Amer. revol. 973.356
Trumpet wind instrum. 788.1
Trumpeters pigeons 636.59626
Trunk making 685
railways elec. eng. 621.33132

Trunkfish zoology 597.5
Trunking
telefone switchboards 621.38741
systems 621.38561
Trunks telefone lines 621.38741
Trussed
arch bridge engin'g 624.7
bridges engin'g 624.3
Trusses
bridge engineering 624.3
surgery 617.92
Trust companies banks 332.14
Trustees, library 023.3
room 022.611
Trusts
and trustees law 347.7
corporations pol. econ. 338.8
monopolies " 338.8
Truth ethics 177.3
Tryon in Conn. Am. revol. 973.3351
Trypanosomiasis diseases 616.9681
Trypsin physiology 612.3424
Tryptic digestion physiol. 612.342
Tuba wind instruments 788.48
auditiva anat. 611.856
Tube, per cent dairy 637.1275
Tuber cinereum anat. 611.8143
Tuberaceæ botany 589.231
Tubercle diseases 616.995
Tuberculosis " 616.995
public helth 614.542
pulmonary diseases 616.246
Tubers
field crops 633.49
garden " 635.2
harvesting 631.5564
plant culture 631.5322
washers for 631.3626
Tubes
boiler engin'g 621.18453
domestic economy 643.6
Fallopian anatomy 611.656
locomotiv boiler 621.1333
pneumatic communica. 654.8
dom. econ. 643.6
lib. econ. 022.946
porcelain chemistry 542.232
speaking communica. 654.8
dom. econ. 643.6
lib. econ. 022.947
strength of materials 620.11283
sunken foundations 721.177
Tubing, glass prac. chem. 542.231
rubber " " 542.26
Tubular boilers engin'g 621.18425
bridges " 624.4
furnaces prac. ch. 542.42
Tubuli recti anatomy 611.6311
Tubulous boilers engin'g 621.18426
[1]Tucker co. W. Va. hist. 975.483
Tuckerman, H: T. Am. lit. 814.33
Tudor architecture 724.4
Tudors English history 942.05
Irish " 941.55
Tufa economic geology 553.58
lithology 552.22
Tuff " 552.22
[1]Tug valley, W. Va. hist. 975.446
Tugs shipbilding 623.8232
Tuition fees schools 371.22
Tula istle 633.5772
[1]Tulare co. Cal. hist. 979.486
Tullahoma, Tenn. campain 973.7342
Tullin, K. B. Dan. poetry 839.8151
Tumbler pigeon 636.59615
Tumors diseases 616.992
Tuna fruit culture 634.7751
Tune sacred music 783.6
Tung
anatomy 611.313
diagnosis pathology 616.072
diseases of 616.31
physiology 612.3123
Tungstates mineralogy 549.74
Tungsten
filaments elec. lighting 621.32643
metals chemistry 546.78
Tungusic language 494
Tunicata zoology 594.9
Tunics of eye
fibrous anatomy 611.841
physiology 612.841
vascular anatomy 611.842
physiology 612.842
Tuning forks acoustics 534.3
piano 786.2
[1]Tunis history 961.1
travels 916.11
Tunisian sheep 636.386
Tunneling
machinery, hydraulic 621.269
mining engineering 622.26
railroad " 625.13
Tunnels aqueducts 628.14
[1]Tuolumne co. Cal. hist. 979.445
Tupelo, Miss. battle 973.7372
Turanian languages 494
literatures 894

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Turbin wheel hydraulic 621.24
steam 621.165
Turbinate bones anat. 611.21
Turbits pigeons 636.59623
Turck's fasciculus anat. 611.8252
Turell Catalan miscel. 849.9822
Turf
burning agriculture 631.831
spade 631.3111
[1]Turin history 945.1
travels 914.51
[1]Turkestan history 958.4
[1] East " 951.6
Turkey poultry 636.592
Turkey in
[1] **Asia history 956**
Europe
administration 354.496
botany 581.9496
finance 336.496
geology 554.96
[1] **history 949.6**
maps 912.496
schools 379.496
statistics 314.96
travel 914.96
treaties 341.2496
Turkeyneck fowls 636.5882
Turkish
architecture 723.3
baths architecture 725.73
customs 391.6
hygiene 613.46
harems customs 392.6
horses 636.11
language 494
literature 894
power Greek history 949.505
Turko-Russian war
Russian hist. 947.08
Turn halls architecture 725.85
Turneraceæ botany 583.455
Turning
bridges engineering 624.83
lathes 621.94
moldboard plow 631.3124
Turnip
field crops 633.42
garden " 635.12
rooted cabbage 635.126
celery 635.128
chervil 635.136
Turnouts railway engin'g 625.16
Turnpikes road engin'g 625.7
Turntables railway " 625.16
Turnwrest plow 631.3124
Turpentine chem. tech. 665.3
collectors 631.3568
Turret mounts ordnance 623.4334
Turtles
fishery 639.3
paleontology 568.13
zoology 598.13
Tuscan swine 636.45
[1]Tuscany, Italy history 945.5
travels 914.55
[1]Tuscarawas co. O. history 977.166
Tuscarora indians 970.3
[1]Tuscola co. Mich. history 977.445
Tutor home education 373.1
Twain, Mark Am. humor 817.44
Tweeddale sheep 636.3252
Twelfth nerv anatomy 611.83193
physiology 612.81993
Twilight 525.7
Twins, etc. obstetrics 618.25
Two
book system lib. econ. 024.611
furrow plow 631.3122
[1] Mountains co. Que. hist. 971.425
phase elec. machinery 621.313322
trac. systems 621.331432
transmis. " 621.319132
wire elec. " " 621.319122
telefone systems 621.38536
Tyler, J: presidency of 973.58
R. Amer. drama 812.21
[1]Tyler co. W. Va. history 975.419
Tympani, membrana
anatomy 611.855
ear diseases 617.85
physiology 612.855
Tympanum
anatomy 611.854
ear diseases 617.84
physiology 612.854
Type
and type setting printing 655.2
for books publishing 655.53
founders' occupat. hyg. 613.63
founding 655.21
writers communication 652
lib. admin. 025.153
servis 023.762
Types
alternating current mach. 621.31332
boat naval architecture 623.82
boilers engineering 621.1842

Types
direct current machinery 621.31322
farm 631.14
furnaces steam mach'y 621.1832
locomotivs " " 621.132
molecules chem. 541.5
ship naval architecture 623.82
special, education of 371.97
steam engins 621.112
portable 621.152
stationary mechanism 621.164
use 621.162
traction 621.144
turbins 621.1652
Typhaceæ botany 584.63
Typhoid fever pathology 616.927
pub. helth 614.511
Typhus fever pathology 616.922
pub. helth 614.526
Typografers biografy 926.5
Typografy 655
Typology Bible 220.6
Tyre ancient history 939.44
Tyrian architecture 722.3
[1]Tyrol history 943.64
travel 914.364
[1]Tyrone, Ireland history 941.64
Tyrotoxicon animal pois. 615.94
Tyrtaeus Greek lyr. poetry 884.1
Uberti, F. degli Ital.poetry 851.17
Udall, N: English drama 822.22
[1]Uganda, Africa hist. 967.6
Uhland, J; L; Ger. poetry 831.73
[1]Ukraine, Russia history 947.7
Ulcers surgery 617.24
Ulna anatomy 611.7176
Ulnar artery " 611.13435
Ulrich von Lichtenstein
German poetry 831.28
[1]Ulster co. Ireland history 941.6
[1] N. Y. " 974.734
Ultramontanism Cath. ch. 282
eccles. pol. 262.13
Umbellales botany 583.48
Umbelliferæ " 583.481
Umbilic
artery anatomy 611.1377[1]
cord obstetrics 618.38
mesenteric artery anat. 611.1364
vein " 611.1498
Umbrella stands dom.econ. 645.61
lib. " 022.922
Umbria ancient history 937.4
[1] modern " 945.6
[3]Umlaut Eng. orthog. 421.2
Unciform bone anatomy 611.71778
Unconsciousness metaphys. 127
Unction, extreme theology 265.7
Underground
contact elec. traction 621.3325
railway slavery 326.973
U. S. civ. war 973.7115
stations arch. 725.319
roads engineering 625.4
mining engin'g 622.62
water phys. geog. 551.49
wiring elec. lines 621.31923
Underhill sheep 636.3231
Undershot wheels engin'g 621.23
Understanding psychology 153
Understudies lib. econ. 023.702
Underwear dom. " 646.42
Underwriters
rules elec. lighting 621.3281
Undulation
dynamics 531.33
sound 534.1
Undulatory theory of light 535.1
Unfair apportionment 328.3345
[1]Ungava, Can. history 971.28
Ungulata mammals 599.7
Unicameral legislature 328.391
Unicorns folklore 398.4

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Unification of Italy 945.09
Uniform laws legislation 328.22
Uniformity
act of Eng. relig. hist. 274.2
Uniforms
domestic 647
library 023.95
military equipment 355.81
esthetics 355.14
Uninsulated conductors, elec. 621.31932
Union
act Can. history 971.039
Canadian history **971.04**
[1] co. Ill. history 977.3995
[1] Ind. " 977.262
[1] Ia. " 977.785
[1] N. J. " 974.936
[1] O. " 977.153
[1] Pa. " 974.848
prisoners of war ass'n 369.155
railroad stations arch. 725.313
soveren states 321.022
veterans union 369.154
zootęchny 636.082453
Unionidæ zoology 594.1
Unionists in South
U. S. civil war 973.717
Unions
English local gov't 352.0424
trade polit. economy 331.88
Unique books rarities 094
Unisexuales botany **583.95**
Unit of work mechanics 531.41
Unitarian church 288
Unitarians biografy **922.81**
United
Americans polit. soc. 363
brethren sects 284.6
colonies N. Eng. U.S. hist. 973.23
confederate veterans 369.174
Empire loyalists Can. hist. 971.024
[1] **Kingdom history** **942**
[1] **Netherlands "** **949.2**
presbyterian church sects 285.4
[1] **Provinces history** **949.2**
servis, military and naval 355
sons of confed. veterans 369.173
United States of America
administration **353**
antiquities **913.73**
architecture **720.973**
bank political econ. 332.11
U. S. history 973.56
botany **581.973**
United States of America
boundaries 973
Christian commission 267.11
U. S. hist. 973.7781
coast survey 526
colleges **378.73**
constitutional law **342.73**
daughters 1776–1812 soc. 369.142
education **370.973**
finance 336.73
fine arts 709.73
geology **557.3**
government admin. **353**
hereditary societies **369.1**
[1] **history** **973**
laws **345**
[5] **literature** **810**
maps **912.73**
national bank U. S. hist. 973.41
patriotic societies **369.1**
religious history **277.3**
sanitary com. charity 361
U S. hist. 973.7771
schools, public **379.73**
ship U. S. war of 1812 973.525
socialism 335.973
statistics **317.3**
statutes **345**
travels in **917.3**
treaties 341.273
war of 1812, military soc. 369.143
society 369.141
zoology **591.973**
United States of Colombia
[1] history 986
Units electric 537.7
physical 530.8
Unity
metaphysics 111
of God doctrin **231**
human race 572.1
knowledge 121
language 401
nature 501
territory pol. sci. 320.124
Univalvs mollusks 594.3
Universal
gravitation, law of mech. 531.51
history **909**
joints mech. eng. 621.825
language **408.9**
military servis 355.22
suffrage 324.211
Universala univ. lang. 408.9

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Universalism sects 289.1
Universalists biografy 922.81
Universals metaphysics 113
Universe astronomy 523.1
Universities 378
architecture 727.3
state and national 379.16
University
clubs, general 378.068
courts disciplin 378.113
education 378.01
extension 378.13
libraries education 371.647
lib. econ. 027.7
of the State of New York 379.747
people's, library as the 021.2
Universology cosmology 113
Unofficial
ballot pol. sci. 324.351
legislativ lists 328.339
Unregenerate doct. theol. 233.2
Unstratified ores econ.geol. 553.15
Upholstering
mechanic trades 684
Upholstery dom. econ. 645.4
Upland Leicester sheep 636.3213
sheep, German 636.333
Upper
[1] Austria history 943.62
travels 914.362
[1] Bavaria history 943.36
travels 914.336
[1] **Canada history 971.3**
travels 917.13
chamber legis. bodies 328.31
[1] Egypt history 962.3
travels 916.23
extremities anatomy 611.97
bones " 611.717
deep veins " 611.14541
joints " 611.727
lymf glands " 611.467
lymfatics " 611.4217
muscles " 611.737
superfic. veins " 611.14546
[1] Franconia history 943.31
travels 914.331
[1] Guinea history 966.5
travels 916.65
house legislativ bodies 328.31
[1] Palatinate history 943.34
travels 914.334
Silurian group geology 551.732
Syria ancient history 939.41
Upperdown sheep 636.3231
Uprisings
political 323.2
[1]Upshur co. W. Va. hist. 975.462
Uptakes steam engin'g 621.18382
Urachus anatomy 611.622
Ural-Altaic languages 494
literatures 894
Uranium chemistry 546.79
Uranografy astronomy 523
Uranus planets 523.47
Urates physiology 612.461267
Urban
roads engineering 625.712
Urchins, sea
fishery 639.6
zoology 593.95
Urea
glandular system physiol. 612.4612
physiology of liver 612.3531
nutrition 612.398193
Ureameters physiology 612.46121
Uredineæ botany 589.225
Uremia physiology 612.466231
Ureters anatomy 611.617
physiology 612.4671
Urethra anatomy 611.623
female " 611.674
male " 611.623
diseases of 616.64
Urfé, Honoré d' Fr. fiction 843.41
Uric acid
physiology of kidneys 612.46125
nutrition 612.398193
Urin
chemic analysis 543.9
physiology 612.46
study of disease 616.076
Urinals
air pollution 614.764
public sanitation 628.45
Urinary
organs anatomy 611.6
diseases 616.63
secretion physiol. zool. 591.149
[4]**Uriya language 491.45**
Urobilin physiology 612.46127
Urochrome " 612.46127
Urodela batrachia 597.9
Urogenital sinus anat. 611.629
Ursulines sisterhoods 271.974
Urticaceæ botany 583.962
Urticaria diseases 616.51
[1]Uruguay history 989

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Usages, social etiquet 395
Use of
library, free lib. econ. 024.28
[3] words Eng. philology 428.3
Useful arts 600
biografy of 926
Usefulness of
animals econ. zoology 591.61
plants econ. botany 581.61
Ushers library servis 023.78
Ustilagineæ botany 589.227
Usury banking 332.8
law 347.7
Utah, U. S.
acquisition Mex. war 973.621
admission U. S. hist. 973.87
[1] history 979.2
mil. hist. U. S. civ. war 973.7492
Spanish war 973.89492
Utensils
kitchen 643.35
special for cooking 641.58
Uterin artery anatomy 611.13773
circulation physiol. 612.6271
ligaments anat. 611.667
Uterins therapeutics 615.766
Utero-ovarian nervs anat. 611.8393
Uterus
anatomy 611.66
diseases of women 618.14
inversion in labor 618.57
masculinus anatomy 611.6231
physiology 612.627
[1]Utica, N. Y. history 974.763
Utilitarianism ethics 171.5
Utilities, public 380
Utility of philosofy 101
[2] special subjects see subject
Utilization
of animals zootechny 636.088
Utopias polit. science 321.07
Utrecht, Peace of Eur.hist. 940.22
Utricle anatomy 611.8525
physiology 612.8582
Uveal tract anatomy 611.842
physiology 612.842
Uvula anatomy 611.315
Vacancies
legislativ bodies **328.3357**
Vacation
closing lib. economy 024.44
loans " " 024.612
schools 374.8
terms universities 378.14
Vacations
hygiene 613.76
laboring classes 331.816
library economy 024.44
staff 023.66
school education 371.23
teachers " 371.167
Vaccinal syphilis cont. dis. 614.4733
Vaccination cont. diseases 614.473
Vacciniaceæ botany 583.61
Vaccinization contag. dis. 614.4735
Vacuum
cleaners dom. economy 648.52
mech. engin'g 621.55
lamps elec. lighting 621.3273
machines refrigeration 621.575
pump chem. apparatus 542.77
regulators " " 542.77
Vaga sheep 636.3317
Vagabonds pauperism 339
Vagina
admin. of med. by 615.66
anatomy 611.671
diseases of women 618.15
Vaginal artery anatomy 611.13773
nervs " 611.839
Vagrancy pauperism 339
Vagus
nerv anatomy 611.83191
hart 612.1781
larynx 612.7822
physiology 612.81991
respiration 612.287
stomach 612.3272
nuclei anatomy 611.8187
nucleus and respiration 612.282
Valais sheep, Swiss 636.338
goat " 636.5936
Valbergieae forage crops 633.377
Valdés, J. M. Span. poetry 861.46
[1]Valencia history 946.7
travels 914.67
Valencies chemistry 541.39
Valerian therapeutics 615.789
Valerianeæ botany 583.531
Vallenberg, J. Swed. fiction 839.7342
Valley Forge Amer.revol. 973.3341

Valleys phys. geografy 551.43
Valois, house of Fr. history 944.025
Valsalva, sinuses o anat. 611.1265
Valuation
farm economics 631.112
tax assessment 336.29
Value
commercial, of food zoot. 636.0854
economic, of fertilizers 631.815
nutritiv, of food zoot. 636.0852
of moneys, comparativ 332.45
old books lib. econ. 025.223
political economy 330.1
standards of money 332.42
thermodynamic, of
albuminoses physiol. 612.398172
albumins " 612.3985
carbohydrates " 612.3965
fats " 612.3975
food " 612.3925
peptones " 612.398172
Values
average probabilities 519.6
educational curriculum 375
food dom. economy 641.1
Valv
bugle musical instru. 788.47
gearing mech. eng. 621.84
motions " " 621.84
Valvs
blowout steam engin'g 621.18479
hydraulics 532.55
of hart anatomy 611.1263
physiology 612.1713
safety steam engin'g 621.18473
sewer appurtenances 628.257
steam locomotiv 621.1342
pipe 621.1854
turbin design 621.16535
Valvulae conniventes anat. 611.3414
Valylene organ. chem. 547.24
Vampire folkore 398.4
zoology 599.4
[1]Van history 956.6
Vanadates mineralogy 549.72
Vanadium group chem. 546.85
Vanbrugh Eng. drama 822.47
Van Buren, M. presidency 973 57
[1]Van Buren co. Ia. hist. 977.798
[1] Mich. " 977.413
[1]Vancouver iland " 971.1
Vandals " 943.01
[1]Vanderburg co. Ind. " 977.233
[1]Van Dieman's Land " 994.6
[1]Van Wert co. O. " 977.141
Vanes steam turbin design 621.16532
theory 621.16512
Vanilla field crops 633.821
Vapor
baths therapeutics 615.853
engins, binary mech.eng. 621.44
exhalation physiology 612.25
lamps elec. lighting 621.327
Vaporization
heat 536.44
practical chemistry 542.48
Vapors
inhalation of hygiene 613.62
meteorology 551.57
properties of 533.1
[1]Var, France history 944.93
Varangian kingdom hist. 947.02
Varchi, B. Ital. essays 854.38
Variable
stars astronomy 523.84
temperature hygiene 613.64
Variables
complex algebra 512.82
calculus 517.8
Variation
evolution 575.2
in animals phys. zool. 591.15
zootechny 636.08211
negativ physiol. of cells 612.0144232
nervs 612.8132
of compass 522.76
elements of orbit 521.34
Variations
calculus of 517.4
of animal heat physiol. 612.55
longitude and latitude 521.28
right ascen. and declin. 521.27
piano music 786.48
Varicosities, nerv histology 611.01883
Varieties of cheese 637.35
Variety
in feeding zootechny 636.08445
vs monotony lib. work 023.701
Variolation contag. dis. 614.472
Varioloid diseases 616.912
Varnishes chem. technol. 667.7
Varnishing painting 698.3
Varnishmaking air pollu. 614 736
Varying speed motors 621.313248
Vas aberrans anatomy 611.1354
deferens " 611.634
Vasa aberrantia " 611.633
brevia artery " 611.13642

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Vasa efferentia " 611.6311
recta " 611.6311
Vascular system anatomy 611.1
diseases 616.1
physiology 612.1
Vases domestic economy 645.5
pottery 738
Vasoconstrictors physiol. 612.183
Vasodilators " 612.184
Vasomotors
cerebral physiology 612.8243
influence on temperature 612.531
physiology 612.18
Vasquez de Coronado
discovery of America 973.16
Vassal states pol. sci. 321.028
Vassalage 321.3
Vassar college 376.8
Vastus muscles anatomy 611.73822
Vater, process of " 611.367
Vatican council, 1870 262.13
Vaticination prediction 133.3
Vats voltaic cells 621.3521
Vattemare exchange syst. 021.852
[1]Vaucluse, France history 944.92
Vaudois Christian sects 284.4
persecution 272.3
[1]Vaudreuil co. Que. hist. 971.426
Vaulting athletics 613.72
Vaults
air pollution 614.764
architectural construc. 721.43
design 729.34
carvd arch. decoration 729.58
disinfection contag. dis. 614.48
painted arch. decor. 729.48
receiving architec. 726.8
suffocation in prot. of life 614.82
Vector, equation of radius 521.38
Vedas Sanskrit literature 891.2
Vedel, A. S. Dan. misc. 839.883
Vega, G. de la Span. poet. 861.31
Carpio, L. F. de 862.31
Vegetable
anatomy comparativ 581.4
descriptiv 581.7
chemistry 547
diet hygiene 613.26
drugs mat. med. 615.32–3
dye plants agric. **633.86**
farms 631.142
fats chem. tech. 665.3
food dom. econ. 641.3
hygiene 613.26
Vegetable
food physiol. 612.3927
forms decora. in relief 729.51
painted decora. 729.41
gardening 635
irritants poisons 615.93
manures agric. 631.87
markets dom. econ. 641.4
marrow 635.623
materials engin'g 620.197
milks 637.181
nitrogen fertilizers 631.847
oils chem. tech. 665.3
oyster 635.16
parasites diseases 616.969
physiology 581.1
poisons toxicology 615.9
sponge 635.627
substances, analysis of 543.8
trades air pollution 614.73
world botany 580
Vegetables
and animals physiol. 612.0135
cand, inspec. of, pub. helth 614.318
field crops 633.4
fresh, inspec. of pub. helth 614.316
garden crops 635
preservation chem. tech. 664.8
Vegetarianism hygiene 613.26
physiol. 612.39271
Vegetation botany 580
Vehicles
carbilding 699
carriage making 684
farm transport 631.373
motor 629.2
Vehmgericht criminal law 343.43
Vein, fluid hydraulics 532.52
Veins admin. of med. by 615.65
air in physiol. 612.1341
anatomy 611.14
diseases 616.14
geology 551.88
mineral econ. geol. 553.19
pressure in physiol. 612.144
Veldeke, H. van Dut. poet. 839.3112
Veldlakers cattle 636.2354
Vellum books rarities 096
Velocipedes 629.2
Velocity
in sewers sanit. eng. 628.219
of light optics 535.2
liquids hydraulics 532.57

Velocity
of sound acoustics 534.2
tide wave tides 525.65
turbins engineering 621.16522
Velum
interpositum anat. 611.8192
medullare, posterior 611.81711
superior 611.8163
Velvet bean forage crops 633.363
Vena cava, inferior anat. 611.146
superior " 611.145
[1]Venango co. Pa. history 974.896
[1]Vendée, France " 944.61
war in Fr. " 944.042
Vendors law 347.7
Veneer manufacture 674
Veneer grafting 631.54135
Veneering arch. decor. 729.6
cabinet work 684
Venereal diseases. 616.95
Venery, excessiv, effects of 616.984
Venesection therapeutics 615.811
Venetia ancient history 937.3
[1] modern " 945.3
Venezuela
boundary U. S. history 973.87
[1] history 987
travel 918.7
[1]Venice history 945.3
travels 914.53
Venom poisoning physiol. 612.3145
Venoms comp. physiol. 612.314
Venous
blood physiology 612.114
circulation " 612.134
duct of Arantius 611.1497
pulse physiology 612.1342
thrombosis, puerperal 618.77
Vent ordnance 623.4242
Ventilating science 536.84
Ventilation
bilding 697.9
library economy 022.89
mining engineering 622.4
of house dom. econ. 644.5
kitchen " " 643.32
school bildings 371.628
pulmonary physiol. 612.2162
sanitary engineering 628.8
sewers " 628.23
shipbilding 623.85
Ventilators sewer appurte. 628.256
Ventricle
of brain, 3d anatomy 611.8148
4th " 611.8185
5th " 611.8139
Ventricles
of brain, lateral anat. 611.8138
hart " 611.124
larynx " 611.224
Ventricular coronary vein 611.1493
Ventriloquism amusem'ts 791
physiol. 612.7895
[1]Ventura co. Cal. hist. 979.492
Venus planets 523.42
transits astron. 523.92
Vera Cruz, Mexico
battle Mex. history 972.05
U. S. " 973.6237
[1] history 972.6
Veranda furniture 645.8
Veratrum group therapeu. 615.716
Verbal
[3] forms Eng. etymol. 422.8
[3] syntax 425.8
[3] inflection morphol. 425.18
Verbatim reporting 653.046
Verbenaceæ botany 583.88
[1]Verchères co. Que. history 971.436
Verga, Giovanni Ital. fic. 853.84
Verification
of legislativ powers 328.36
Vermes articulates 595.1
Vermiform appendix anat. 611.3452
physiol. 612.363
surgery 617.55
Vermifuges therapeutics 615.733
[1]Vermilion co. Ill. history 977.365
[1] Ind. " 977.246
Vermont, U. S.
admission U. S. history 973.41
[1] **history 974.3**
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973.7 and 973.89
[1]Vernon co. Mo. history 977.844
[1] Wis. " 977.573
[1]Verona, Italy " 945.3
travels 914.53
Verplanck, G. C. Am. sat. 817.25
Verrazano discov. of Am. 973.18
Versailles description 914.436
[1] history 944.36
[3]Verse, science of 416
textbooks for writ'g 426.8
[3]Versification Eng. prosody 426.2

Version obstetric opera. 618.82
Vertebrae anatomy 611.711
Vertebral
artery anatomy 611.1349
articulations " **611.721**
colum " **611.711**
Vertebrates paleontology 566
zoology 596
Vertical
impulse wheels 621.233
marine engins 621.1224
prime astronomy 522.47
steam engins 621.11244
Vertigo
diseases 616.841
physiology 612.8863
Verumontanum anat. 611.6231
Vesical
apparatus, innervation 612.4673
artery, inferior anat. 611.13772
superior " 611.13771
nervs " 611.839
Vesicants therapeutics 615.774
Vesicles, seminal anat. 611.636
Vesicular affections of skin 616.52
Vespers
Anglican ritual 264.034
music 783.2
Vespucci discov. of Amer. 973.16
Vessel, J. H. Dan. poetry 839.8153
Vessels shipbilding 623.8
Vestibular
ganglion anatomy 611.89185
nerv anatomy 611.83185
nucleus " 611.8178
Vestments ecclesiology 247.7
Vesuvius volcanoes 551.21
Vetches forage crops 633.35
Veteran relief union, woman's 369.162
Veterans societies
association, confederate 369.172
Great war 369.186
national ass'n of naval 369.157
of Mexican war 369.146
regular army and navy 369.112
Spanish war 369.181
union, Union 369.154
U.S.army, soc. of sons of 369.165
Veterinary
medicin 619
zootechny 636.089
sanitation pub. helth 614.9
Vetiver perfume plants 633.815
Veto
overriding legis. proced. 328.375
pocket " " 328.375
power of president U. S. 353.03
Vetticost salad plants 635.57
Viaducts bridges 624
Viaticum sacrament 265.7
Viau, T. de French satire 847.41
Vibratil cilia physiol. 612.72
Vibration
acoustics 534.5
dynamics 531.32
Viburnum uterins 615.766
Vice
administration 351.76
crime 343
education 379.21
Vicente, Gil Span. drama 862.22
Vices ethics 170
Vicieae forage crops 633.378
Vicksburg
naval hist. U.S.civ.war 973.753
siege " 973.7344
Vicq-d'Azyr, bundle of 611.8142
Victor Emanuel Ital. hist. 945.09
Victoria, Queen Eng. " 942.081
Scot. " 941.08
[1]Victoria, Australia " 994.5
[1] co. N. B. " 971.553
[1] N. S. " 971.693
[1] Ont. " 971.364
Victorian Gothic architec. 724.4
Victrola mech. instrum'ts 789.8
Vienna
congress of Europ. hist. 940.27
interna. law 341.1
[1] history 943.61
travels 914.361
[1]Vienne, France history 944.63
Vieussen's valv anat. 611.8163
Vignettes engravings 760
Vigny, A. V. Fr. drama 842.75
poetry 841 76
[1]Vigo co. Ind. history 977.245
Vikanera language 491.43
Vikings history 948.01
[1]Vilas co. Wis. history 977.523
Village
communities 321.2
homes architecture 728.6
newspapers 070.236
Villains feudalism 321.3
social classes 323.34
Villari, P. Ital. essays 854.84

Villas architecture 728.84
Villemain, A. F. Fr. essays 844.72
Villenage feudalism 321.3
social classes 323.34
Villi, lacteal anat. 611.4265
Villon, François Fr. poetry 841.25
Vincennes, Ind. Am. revol. 973.3348
Vincent de Paul, sisterhood 271.91
Vinci, Leonardo da Ital. lit. 854.25
Vinciguerra, A. Ital. satire 857.23
Vindelicia anc. history 939.83
Vindications
American revolution 973.38
U. S. civil war 973.78
war of 1812 973.528
Vine culture agriculture 634.8
Vinegar making
air pollution 614.733
chemic technology 664.5
Vines botany 581.5
layering horticulture 631.5347
Vinyard plow 631.3127
Vinyards 634.8
[1]Vinton co. O. history 977.1837
Viola stringd instruments 787.2
Violarieæ botany 583.135
Violets horticulture 716.2
perfume plants 633.811
Violins stringd instrum. 787.1
Violoncello " " 787.3
Virgil Latin epic poetry 873.1
[1]Virgin ilands history 972.97
travels 917.297
Virgin Mary biografy 225.92
catholic doc. 230.2
Virginia, U. S.
British in Amer. revol. 973.3374
[1] history 975.5
For military history, see subdivisions of Special campains and Military history under 973.3, 973.52, 973 62, 973.7 and 973.89
secession U. S. history 973.713
Virginia strawberry 634.754
[1]Virginia, West history 975.4
travels 917.54
For military history, see subdivisions of Special campains and Military history under 973.7 and 973.89
Virginity relig. asceticism 248
Virginius incident U.S.hist. 973.82
Virtues 170
Viscosity of blood physiol. 612.11814
Visibility of stars astron. 523.82
Visible speech phonology 414
Visigoths German history 943.01
Vision
disorders blind asylums 362.4
diseases of eye 617.75
mental faculty 152.1
optics 535.7
organs of anatomy 611.84
physiology 612.84
Visions and dreams 135
Visitation
and search internat. law 341.3
pastoral 253
Visitations Eng. heraldry 929.726
Visits, school educ. methods 371.393
Visscher, M. T. Dut. poet. 839.3133
Visual
acuteness physiol. 612.84363
angle optics 535.7
impressions, persistence 612.8435
instruction education 371.335
sensibility physiology 612.84363
Vital
capacity respiration 612.24
fenomena biology 577
force biology 577.6
functions animals 591.1
man 612
statistics population 312
pub. helth 614.1
Vitalis Swedish satire 839.7762
Vitalism biology 577.6
physiol. 612.0134
Vitality zoology 591.139
Vitellin sac embryology 611.01381
Vitreous
humor anatomy 611.8447
eye diseases 617.74
physiology 612.8447
Vitrified
brick pavements road eng. 625.87
Viva voce
vote legislativ proced. 328.375
Vivipara generation 591.168
Vivisection
animal anatomy 591.7
ethics 179.4
laws public helth 614.23
physiology 612.077
Vocal
cords anat. 611.225
false anat. 611.223
culture elocution 808.5
music 784.9
hygiene, etc. 784.9

Vocal
music **784**
organs acoustics 534.7
comp. physiol. 612.786
diseases of **616.2**
human anatomy **611.2**
innervation 612.819923
physiology **612.78**
Vocalists' lives singers 927.8
Vocation, choice of 374.1
Vocational education **371.42**
Vochysiaceæ botany 583.145
Voice
elocution 808.5
physiology **612.78**
[3] **signs Eng. etymol.** **422.8**
singing 784.9
Volapük universal lang. 408.91
Volcanic
ashes lithology 552.22
rocks " **552.2**
tufa " 552.22
Volcanoes physical geol. 551.21
Volition, *see* Will
Volkslied vocal music 784.4
[1]Vologda, Russia history 947.2
Voltage meters elec. eng. 621.3743
Voltaic
cells engineering **621.35**
electricity physics **537.5**
Voltaire, F. M. A. de
French drama 842.56
fiction 843.54
Voltmeters elec. eng. 621.3743
Volume
chemic apparatus 542.35
of muscle physiol. 612.7412
organs " 612.189
Volumetric
analysis chemistry **545.5**
geometry **513.3**
Voluntary music 786.87
Volunteers army 355.22
soc. of loyal 369.153
U. S. civ. war 973.7412
Vomer anatomy 611.7159
Vomiting diseases 616.33
physiology 612.3277
Vomitories physiology 612.3278
therapeutics 615.731
Vondel, J. van der Dut. lit. 839.3132
Voodooism 133.4
Voorhees silver act U.S.hist. 973.87
Vorm, Jacob Dan. poetry 839.8138
Vortex rings molec. phys. 539.1
Vos, Ján Dutch drama 839.3234
[1]Vosges, France history 944.39
Vosmaer, Jacob Dutch fic. 839.3352
Voss, J; H; Ger. poetry 831.65
Vote
announcements suffrage 324.261
class " 324.214
legislativ procedure 328.375
majority legis. bod. 328.3355
plural suffrage 324.213
plurality legis. election 328.3355
result elections 324.26
Voters qualifications **324.1**
Voting
compulsory suffrage 324.215
in person legis. proced. 328.375
machines pol. sci. 324.258
place suffrage 324.246
suffrage **324**
Vowel production physiol. 612.7894
[3]Vowels Eng. language 421.2
Vows asceticism 248
Voyages
Antarctic 919.9
Arctic 919.8
round the world 910.4
scientific **508.3**
travels 910.4
[3]Vulgarisms Eng. lang. 428.3
Vulgate Bible 220.47
Vulva anatomy 611.673
diseases of women 618.16
Vulvo-vaginal glands 611.677

[1]Wabash co. Ill. history 977.378
[1] Ind. " 977.283
Wace, Robert Fr. poetry 841.12
Wadmar, J. A. . Swed. sat. 839.7761
Wadskjær, K. F. Dan. poet. 839.8146
Wage
fund polit. econ. 331.212
living " " 331.214
minimum " " 331.215
scales " " 331.22
Wagenaar, Jan Dut. misc. 839.384
Wager of battle legal antiq. 340.3
Wagers ethics 175.9
Wages
attachment of 347.7
bases of polit. econ. 331.23
domestic economy 647.7
farm economics 631.173
for state labor 331.262
in special countries 331.29
trades 331.28
labor and polit. econ. 331
loans on pol. econ. 332.315
stock farming 636.08173
work at reduced 331.5
Wagner, Battery, S. C.
U. S. civil war 973.7351
Wagnerian music 782.2
Wagons
farm transport 631.3735
manufacture 684
milk dairy 637.135
Wain, threshing 631.3611
Waiting room lib. bldgs 022.682
Waitresses dom. econ. 647.25
Wake funeral customs 393.9
Wakefulness hygiene 613.86
[1]Waldeck, Germany hist. 943.57
Waldenses persecutions 272.3
sects 284.4
Waldflute wind instrum. 788.5
Waldis B. Ger. poetry 831.42
[1]Waldo co. Me. history 974.15
[1]Wales history 942.9
[4] language 491.66
travel 914.29
Walker's filibuster exped.
Nicaragua history 972.85
U. S. history 973.66
Walking
animal locomotion 591.47
cultivators 631.3162
matches amusements 796
pedestrianism 613.72
Walking
plow 631.3121
school hygiene 371.737
Walks landscape gard'ng 713
Wall
coverings dom. econ. 645.2
decoration school bldgs 371.634
lamps dom. econ. 644.325
papers decoration 745
manufacture 676
paper hanging 698.6
inspection pub. helth 614.37
street banking 332.6
training plant culture 631.5464
[1]Wallachia history 949.8
[4]Wallachian language 459
[5] literature 859
sheep 636.373
Waller, E. Eng. poetry 821.44
Wallikiki fowls 636.5882
Wallin, J. O. Swed. poet. 839.7162
Walls
architectural construc. 721.2
design 729.31
incrusted arch. decora. 729.61
mosaic " " 729.72
painted " " 729.49
schoolroom education 371.634
stone agriculture 631.27
Walnut 634.51
Walpole, H. Eng. letters 826.61
Walruses zoology 599.7
Walther von der Vogelweide 831.27
Waltz music 786.46
Waltzing amusements 793
ethics 175.3
[1]Walworth co. Wis. hist. 977.589
Wandering Jew legends 398.2
[1]Wapello co. Ia. history 977.793
War
captures law 341.3
cause of " 341.3
civil U. S. history 973.7
customs of 399
dances 399
department, U. S. 353.6
ethics 172.4
French and Indian 973.26
Great 1914–19 940.3
law of 341.3
Mexican U. S. history 973.62
ministries of architec. 725.12
of 1812 Can. hist. 971.034
society 369.141

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

War
of 1812 **U. S. history** **973.52**
roses Eng. history **942.04**
revolutionary U.S. " **973.3**
rockets mil. engin'g 623.45432
science and art of **355**
seven years Can. hist. 971.018
U. S. " 973.26
thirty years Eur. " 940.24
woman in woman's pos. 396.9
Warblers birds 598.8
Ward, Artemus Am.humor 817.37
E: English humor 827.51
N. American satire 817.11
Ware, W: " fict. 813.25
Warehouses architecture 725.35
bonded " 725.14
Warm baths " 725.73
hygiene 613.42
Warmers, bed 644.19
Warming
bilding **697**
pans 644.19
sanitary engineering 628.8
science 536.83
Warmth of soil 631.436
Warner, C: D. Am. satire 817.41
Warnings omens 133.3
wether agriculture 632.112
Warpt surfaces descr.geom 515.17
Warrants law 343
Warren, M. Am. drama 812.11
[1]Warren, Ill. history 977.341
[1] co. Ind. " 977.296
[1] Ia. " 977.782
[1] Mo. " 977.8386
[1] N. J. " 974.978
[1] N. Y. " 974.751
[1] O. " 977.176
[1] Pa. " 974.867
[1]Warrick co. Ind. " 977.232
[1]Warsaw " 947.5
travels 914.75
Warships
shipbilding 623.825
Warts skin diseases 616.54
[1]Warwick, England hist. 942.48
[1]Washburn co. Wis. " 977.515
Washers, butter 637.2323
root 631.3626
Washing
butter 637.2333
housecleaning 648.54
laundry **648.1**
Washing
machines dom. econ. 648.23
practical chemistry 542.69
roots farm operations 631.5626
Washington, George
presidency of U.S. hist. 973.41
Washington
city, D. C. burning 973.5238
capital of U.S 973.44
[1] history 975.3
travels 917.53
[1] co. Ill. history 977.388
[1] Ind. " 977.222
[1] Ia. " 977.792
[1] Me. " 974.14
[1] Md. " 975.291
[1] Mo. " 977.864
[1] N. Y. " 974.749
[1] O. " 977.198
[1] Pa. " 974.882
[1] R. I. " 974.59
[1] Vt. " 974.34
[1] Wis. " 977.591
Fort Am. revol. 973.3324
state
admission U.S.hist. 973.86
[1] history 979.7
mil. hist. Spanish war 973.89497
U S.civ.war 973.7497
treaty of 341.273
Washingtonian homes
architecture 725.65
Washington's
birthday in schools 371.365
hedquarters Am. revol. 973.367
[1]Washtenaw co. Mich. hist. 977.435
Wasp and
Frolic U. S. war 1812 973.5251
Reindeer " " " 973.5255
Wasps insects 595.79
pests 632.79
Waste
domestic sanitation 628.44
and repair biology 577.2
land pol. econ. 333.7
reclamation 631.612
repair of animal physiol. 591.136
Wastes
air pollution pub. helth **614.7**
boiler fuels engin'g 621.18225
domestic dom. econ. 648.5
sanitation 628.44
factory " 628.54
sewage disposal **628.3**

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Watch dogs zootechny 636.0835
Watches horology 529.78
manufacture 681
Watchmaking 681
Watchman lib. economy 023.792
Water
artificial ponds, etc. 714
as beverage hygiene 613.31
assimilation physiol. 612.3923
baths prac. chemistry 542.46
blast hyd. mach. 621.269
physics 532.85
buffalo 636.293
chemic analysis 543.3
closets air pollution 614.764
house drainage 628.6
colors 751
cost farm irrigation 631.75
courses, natural hygiene 614.772
cress 635.561
cure therap. 615.853
distribution farm irriga. 631.74
diuretics " 615.761
engins mech. eng. 621.2
exhalation from lungs 612.25
falls phys. geografy 551.48
feeding zootechny 636.08431
filters hygiene 613.35
food value 641.16
force of engineering 627.1
fowl zoology 598.3
gages steam engin'g 621.18472
gas heating 697.6
geologic action 551.92
glass chem. tech. 666.1
fireproofing 614.841
preservativ 691.1
hot, cookery 641.587
cooking appliances 643.338
hydraulics 532
ices dom. economy 641.86
in soil 631.432
inorganic chemistry 546.11
lilies botany 583.118
horticulture 716.2
marks 676
mesology 612.014461
meteorology 551.57
microsopic anal. hyg. 613.33
of crystallization chem. 541.8
physical geografy 551.4
pipes high pressure 621.253
hydraulics 532.54
sanitary eng. 628.15
Water
pollution from cemeteries 614.651
power agriculture 631.3713
electric plants 621.312134
hydraulic engin'g 627
mech. eng. 621.2
pressure engins 621.25
products 338.3
quantity in organisms 612.0144613
ram engineering 621.27
hydraulics 532.83
rights pol. econ. 333.9
supply agriculture 631.7
canal engin'g 626.2
rural 628.7
sanitary engin'g 628.1
tables walls 721.25
tight linings drainage 622.56
towers fire extinction 614.846
waterworks 628.13
travel protec. of life 614.864
tube boilers 621.18426
underground phys. geog. 551.49
vapor, exhalation physiol. 612.25
ways administration 351.813
wheels hydraulics 532.84
mech. eng. 621.21
works 628.1
city admin. 352.6
Waterers, locomotiv 621.1363
[1]Waterford, Ireland hist. 941.91
Watering
place bildings arch. 725.75
places hygiene 613.12
Waterline
belt armoring 623.9
Waterloo
battle of Fr. history 944.05
Waterloo
[1] city, Ia. history 977.7371
[1] co. Ont. " 971.344
Watermelon 635.615
Waterproofing bilding 691
Waters
carbonated hygiene 613.38
mineral adulterations 614.348
artificial 663.6
hygiene 613.38
therapeutics 615.79
Watt
hour meters elec. eng. 621.3745
meters " " 621.3746
ship Amer. revol. 973.356
[1]Waukesha co. Wis. hist. 977.593

[1]Waupaca co. Wis. " 977.538
[1]Wausau, Wis. " 977.529
[1]Waushara co. Wis. " 977.557
Wave muscle physiol. 612.7413
theory optics 535.1
sound 534.1
Waves
nerv, theories physiol. 612.8162
theory of hydraulics 532.59
Wax, bees 638.1
flowers 746
gourd 635.618
grafting 631.341
Waxhaws, N. C. Am. rev. 973.3361
Wayne, A. " " 973.3354
[1]Wayne co. Ill. history 977.3792
[1] Ind. " 977.263
[1] Ia. " 977.788
[1] Mich. " 977.433
[1] Mo. " 977.892
[1] N. Y. " 974.787
[1] O. " 977.161
[1] Pa. " 974.823
[1] W. Va. " 975.447
Wayne's exped. U.S.hist. 973.43
Weak current engineering 621.38
Wealth, *see* Welth
Weaning zootechny 636.08412
Weapons, *see* Wepons
Weather meteorology 551.5
Weathering eng. materials 620.1122
Weaverbirds zoology 598.8
Weaving elem. education 372.55
manufactures 677
[1]Webb city, Mo. history 977.8722
Webster
and Hayne debate 973.561
Daniel Am. oratory 815.27
John English drama 822.36
Noah Amer. essays 814.22
[1]Webster co. Ia. history 977.751
[1] Mo. " 977.882
[1] W. Va. " 975.465
Wedding customs 392.5
Wedge physics 531.86
bones, carpal anat. 611.71773
tarsal " 611.71878
Wedgewood ware pottery 738
Weed cutters 631.3155
hoe 631.3154
hook 631.3155
Weeder 631.3154
Weeding 631.515
iron 631.3154
Weeds econ. botany 581.6
pests 632.58
Week, names of days of 529.2
Weekly half holiday, lib. 023.651
rest labor classes 331.817
Weems prehistoric arch. 571.82
Weevils pests 632.76
Weighing chemistry 542.32
Weight
chemic apparatus 542.32
of earth 525.11
human brain physiol. 612.823
tables zootechny 636.08181
Weights
and mesures metrology 389
state control 351.821
atomic theor. chem. 541.2
Weirs hydraulic engin'g 627.8
mach. 621.269
hydraulics 532.53
Weise, C. German drama 832.53
Weisnegg burners chem. 542.44
Welding metal manuf. 671
Welfare, public admin. 351.8
work Great war 940.477
Welhaven, J. S. C. Dan. lit. 839.8465
Well water hygiene 613.32
[1]Welland co. Ont. history 971.338
Wellesley college 376.8
[1]Wellington co. Ont. hist. 971.342
Wells
[1] co. Ind. history 977.272
dredging thru foundations 721.176
physical geografy 551.49
sunken foundations 721.176
water supply agric. 631.71
engineer'g 628.11
[1]Wellsburg, W. Va. hist. 975.413
Welsh
beef cattle 636.2236
Calvinistic methodists 287.3
discovery of America 973.14
[1] **history 942.9**
[4] **language 491.66**
[5] **literature 891.66**
mountain sheep 636.3267
onion 635.264
pony 636.1629
travels 914.29
Welth
and rank soc. ethics 177.5
consumption final 339
productiv 331
political economy 331

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Welthy class social classes 323.31
Wenceslaus Ger. history 943.027
Wennerberg, G. Swed. sat. 839.7765
Wens diseases 616.993
Wensleydale sheep 636.3216
[1]Wentworth co. Ont. hist. 971.352
Wepons bronze age 571.35
customs 399
military engin'g 623.4
science 355
public safety 351.753
stone age 571.25
zootechny 636.081112-
Werewolvs folklore 398.4
Wergeland, H. Dan. poet. 839.8165
Werner, F. L. Z. Ger.drama 832.67
Wernicke, C. satire 837.53
Wesleyan methodists sects 287.1
West
[1] Australia history 994.1
[1] Bay City, Mich. " 977.447
[1] Coast, Africa " 968.8
country down sheep 636.3233
German swine 636.433
[1] **Indies** " **972.9**
[1] Meath, Ireland " 941.81
[1] New Jersey " 974.95
travels 917.495
[1] Point, N. Y. history 974.731
academy 355.07
[1] Prussia history 943.12
travels 914.312
[1] Russia history 947.6
travels 914.76
Scotch highland cattle 636.2233
[1]**West, U. S. the history 978**
travel 917.8
Virginia admission 973.71
[1] **history 975.4**
travels 917.54
For military history, see subdivisions of Special campains and Military history under 973.7 and 973.89
[1]Westchester co. N. Y. hist. 974.727
Western
church Roman catholic 282
hemisphere geog. 917
phys. geog. 551.41
[1] ilands, Azores hist. 946.99
[1] Maryland hist. 975.29
[1] **States mountain 978**
[1] **Pacific 979**
territory, cession to U. S. 973.318
Westinghouse engins 621.1645
Westminster
Assembly catechism 238.5
confession creeds 238.5
[1]Westmoreland co. Eng. hist. 942.88
[1] N. B. " 971.523
[1] Pa. " 974.881
[1]Westphalia, Germany " 943.56
peace of relig. hist. 270.7
30 years war 940.24
Westphalian fowls 636.538
goat 636.393
swine 636.434
Wet method
qualitativ chem. anal. 544.1
quantitativ chem. anal. 545.2
Wether meteorology 551.5
warnings agriculture 632.112
Wetterberg, K: A. Swed.fic. 839.7364
[1]Wetzel co. W.Va. hist. 975.418
[1]Wexford co. Ireland " 941.88
[1] Mich. " 977.467
Whale fisheries 639.2
zoology 599.5
Whaleback
system shipbilding 623.84
Whalebone dom. econ. 646.17
Wharf
boats architecture 725.34
houses " 725.34
Wharvs engineering 627.3
Wheat
adulterations 614.312
agriculture 633.11
trade agricul. products 338.1
Wheatstone
bridges elec. engin'g 621.3742
telegraf " " 621.38245
Wheel
and axle physics 531.82
cycling amusements 796
ethics 175.7
Wheel hoe 631.3161
vehicles agric. 631.3735
Wheelbarrows farm trans. 631.3734
[1]Wheeling, W. Va. history 975.415
Wheelless vehicles agric. 631.3733
Wheels
cog mechan. engin'g 621.83
elec. motor cars 621.3347
locomotiv running gear 621.135
railroad engineering 625.21
water hydraulics 532.84
mech. eng. 621.21
wooden manufactures 674

Whey butter cheesemaking 637.347
Whig party U. S. hist. 973.56
Whigs, Eng. pol. parties 329.942
U. S. " " 329.4
Whip grafting 631.54133
Whipping post 343.2
Whipple, E. P. Am.essays 814.35
Whirlpools ocean currents 551.47
Whirlwinds meteorology 551.51
Whisky
chemic technology 663.5
insurrection Pa. hist. 974.8
U.S. " 973.43
ring " " 973.82
tax finance 336.27
traffic 178.4
Whist games 795
Whistles locom. fittings 621.1339
steam engin'g 621.18472
White, H: K. Eng. poetry 821.68
White
ants insects 595.73
corpuscles physiology 612.112
[1] co. Ill. history 977.396
[1] Ind. " 977.293
durra 633.178
friars Carmelites 271.73
goose, Chinese 636.59885
Emden 636.5983
hair dermatology 616.54
Holland turkey 636.5926
homing pigeons 636.59635
kafir 633.177
led manufacture 667.6
[1] Mts N. H. history 974.22
Muscovy duck 636.59783
Peking " 636.59785
Plains, battle Am.revol. 973.3324
sapota 634.343
slave trade, *see* Prostitution
substance, cerebellar anat. 611.81715
of spinal cord 611.824
[1] Sulphur Springs, W. Va. 975.489
swelling diseases 616.72
swine, English, large 636.424
medium 636.427
small 636.422
turkey 636.5926
walnut 634.518
Yokohama fowls 636.5857
Whitehead, P. Eng.satire 827.63
[1]Whiteside co. Ill. history 977.335
[1]Whitley co. Ind. " 977.275
Whitman, Walt Am.poetry 811.38
Whittier, J: G. " " 811.36
Whole milk 637.141
Wholesale stores architec. 725.21
Whooping cough pathol. 616.204
pub. helth 614.543
Wich hazel botany 583.394
[1]Wicklow, Ireland hist. 941.84
sheep 636.3243
[1]Wicomico co. Md. " 975.225
Wieland, C. M. Ger. fict. 833.61
[1]Wiesbaden history 943.58
travels 914.358
Wiesental goat 636.393
Wife's duties ethics 173.3
Wigglesworth, M. Am.poet. 811.13
[1]Wight, Isle of history 942.28
travels 914.228
Wigs customs 391.5
[1]Wigton, Scotland history 941.49
Wigwams architecture 725.92
Wild cherry 634.24
fowl sport 799
goose 636.59881
turkey 636.59211
white cattle 636.221
Wilderness, Va. battle
U. S. civil war 973.7366
Wildings childstudy 136.764
[1]Wilkes-Barré, Pa. history 974.833
[1]Will co. Ill. " 977.325
Will
effect on respiration 612.281
metaphysics 159
of God ethics 171.1
physiologic psychology 612.82134
theology 234.9
Willans engins 621.1645
William
1 Conqueror, Eng. hist. 942.021
2 Rufus " " 942.022
3 and Mary " " 942.068
4 " " 942.075
1 new Ger. empire 943.083
2 " " 943.084
of Holland Ger. hist. 943.025
[1]Williams co. O. " 977.111
William's, King, war
U. S. history 973.25
Williams shorthand 653.44
[1]Williamson co. Ill. hist. 977.3993
Willis
circle of anatomy 611.1349
ofthalmic nerv " 611.83152
Willow fiber crops 633.588

Wills genealogy 929.3
law 347.6
[1]Wilmington, Del. history 975.12
Wilmot proviso
causes U. S. civil war 973.7113
slavery 326.973
U. S. history 973.61
Wilson, W. presidency 973.913
Wilson tariff act U.S.hist. 973.87
Wilson's raid U.S.civ.war 973.7387
[1]Wilts, England history 942.31
Wiltshire sheep 636.3232
Winches mech. engin'g 621.864
Winchester, Va. battle
U. S. civ. war 973.7377
Wind
agriculture 632.16
and current charts 551.46
currents aeronautics 629.143
instruments music 788
mills air engins 621.45
drainage 631.65
farm power 631.3714
pressure bridgebilding 624.175
protection of animals 636.08366
Windage steam turbins 621.16515
[1]Windham co. Ct. history 974.64
[1] Vt. " 974.39
Windlasses mech. engin'g 621.864
Window
dressing 659.1
furnishings dom. econ. 645.3
gardens 716.4
tax pol. econ. 336.27
Windows
arch. construction 721.8
design 729.38
dormer arch. construc. 721.55
library bildings 022.71
staind glass arch. decor. 729.8
Windrowers 631.3532
Winds meteorology 551.51
[1]Windsor city, Ont. hist. 971.332
[1] co. Vt. " 974.36
Windsor swine 636.4221
[1]Windward ilands history 972.98
Wine adulterations 614.342
at table temper. 178.3
domestic economy 641.13
manufacture 663.2
temperance 178
Wineberry 634.715
Wing frames lib. fittings 022.932
Wingd shells zoology 594.4
Wings
aeronautics 629.181
animal locomotion 591.47
Winkle fishery 639.4
[1]Winnebago co. Ill. hist. 977.331
[1] Ia. " 977.722
[1] Wis. " 977.564
Winnibago fowls 636.5816
[1]Winneshiek co. Ia. hist. 977.732
Winnowers 631.3622
Winnowing 631.5622
Winter, W: Amer. poetry 811.44
Winter cress 635.564
courses agric. 630.7135
muskmelon 635.611
pruning 631.5421
resorts hygiene 613.12
savory 635.71
sports 796
squash 635.622
Wintergreen 633.823
Winther, C. Dan. fiction 839.8363
Wire, bare elec. eng. 621.31932
lath masonry 693.66
manufacture 671
rope transmission 621.854
strength 620.11288
worms pests 632.76
Wireless
communication engin'g 621.384
telefony communication 654.6
engineering 621.3845
telegrafy communication 654.1
engineering 621.3842
Wires
plant support 631.3451
telegraf communicat'n 654.4
engineering 621.31932
Wirewound guns ordn. 623.42164
Wiring
central station engin'g 621.317
electric transmission 621.319
house elec. lighting 621.3282
Wirsung's canal anat. 611.373
Wirt, W: Amer. oratory 815.23
[1]Wirt co. W. Va. history 975.426
Wisconsin, U. S.
admission U. S. hist. 973.61
[1] **history 977.5**
For military history, see subdivisions of Special campains and Military history under 973.7 and 973.89
Wisdom Apocrypha 229.3
divine doc. theol. 231.6

Wiselius, S: I. Dut. dram. 839.3251
[5]Wit **English humor** **827**
Witch hazel botany 583.394
Witchcraft 133.4
in New England 973.25
Witches persecutions 272.8
Withdrawal book lib. econ. 025.249
Wither, G: Eng. satire 827.41
Witnesses evidence 347.94
Wives' duties family eth. 173.3
Wolcott, J: Eng. satire 827.65
[1]Wolfe co. Que. history 971.457
Wolff Ger. philosofy 193.9
Wolffian body anatomy 611.619
Wolfram inorgan. chem. 546.78
v. Eschenbach Ger. poet. 831.24
Wollf, E. B. Dutch fiction 839.3341
Woman
customs **396**
education **376**
position and treatment **396**
suffrage 324.3
polit. parties 329.83
woman's position 396.3
Woman's
exchange sociology 396.56
relief corps 369.161
rights woman's position 396.2
veteran relief union 369.162
Womb anatomy **611.66**
Women
as librarians 023.56
library trustees 023.34
teachers 371.18
costume of 391.2
diseases of **618**
duties of family ethics **173**
social " **177**
labor of polit. econ. 331.4
lives of collections 920.7
Women's
Christian associations **267.432**
clothes 646.34
domestic economy clubs 640.714
hats 646.54
religious societies **267.4**
rights 396.2
room lib. bildings 022.57
work in church 259
Wood
alcohol chem. tech. 661
and glass structures arch 721.99
iron " " 721.95
ashes agriculture 631.831
Wood
beams bridge engin'g 624.222
bilding material 691.1
bildings, library 022.21
bridges, archt engin'g 624.62
carving 736
city houses, detacht 728.39
party-walls 728.33
semidetacht 728.36
construction carpentry 694.1
construction shipbilding 623.84
[1] co. O. history 977.116
[1] W. Va. " 975.422
[1] Wis. " 977.552
engraving 761
foundations architec. 721.132
fuel dom. econ. 644.21
implements manufac. 674
prehis. arch. 571.51
pavements road eng. 625.83
piles foundations 721.142
ships shipbilding 623.84
tests engineering 620.12
village houses architec. 728.66
partly " 728.65
work, joints carpentry 694.2
working manufactures 674
mills architec. 725.44
shop mfg plant **621.72**
[1]Woodbury co. Ia. history 977.741
Woodbury types 773
Wooden
ceilings arch. construc. 721.71
doors " " 721.81
floors " " 721.61
lath masonry 693.65
piers and colums arch. 721.31
carpentry 694.4
roofs arch. construction 721.51
walls " " 721.21
[1]Woodford co. Ill. history 977.353
Woodland farm economics 631.144
Woodpeckers birds 598.7
Woods
economic botany 581.61
forestry 634.9
perfume 633.814
Wool
domestic economy 646.13
duties on 337.5
dyeing chem. technol. 667.2
linings, mineral masonry 693.67
manufactures 677
mineral eng. materials 620.195

Wool
operativs hygiene 613.63
sheep English 636.32
merinos 636.36
zootechny 636.0884
Woolen clothing hygiene 613.481
mills architecture 725.41
Worcester
[1] co. England history 942.47
[1] Md. " 975.221
[1] Mass. " 974.43
Word method elem. educ. 372.4
Words
[3] arrangement of Eng.phil. 425.3
[3] **etymology English 422**
slang " 427.09
[3] use and abuse " 428.3
[3] vulgarisms " 428.3
Wordsworth, W: Eng. poet 821.71
Work
at reduced wages 331.5
cure therapeutics 615.85
done wage bases 331.231
duration pol. econ. 331.81
feeding for zootechny 636.08453
houses asylums 362.5
maximum thermochem. 541.36
mechanics 531.4
muscular, relations to heat 612.7455
parish, societies for 256
physiology of 612.7661
ration for physiol. 612.3951
special classes lib. econ. 021.28
Sunday 263.5
Workers, butter dairy 637.2324
Working
classes pol. econ. 331.8
of butter 637.2334
farm, systems 631.115
soil 631.51
stresses bridges 624.176
Workingmen's clubs arch. 725.93
Workmen
accident compensation 331.25
cottages for architec. 728.68
insurance compulsory 331.25
law 368
libraries for lib. econ. 027.6
pol. econ. 331.85
tenements for architec. 728.1
Workshop receits tech. 660
Workshops disinfection
in contagious diseases 614.48
World, atlases of 912
World city internationalism 321.041
state pol. sci. 321.04
voyages round 910.4
war 1914–19 940.3
World's fairs 606
Worlds, plurality of 523.13
Worm, Ole Dan. misc. 839.883
Worm gears mech. engin'g 621.8333
Wormian bones anat. 611.7141
Worms diseases 616.962
paleontology 565.1
zoology 595.1
wire pests 632.76
Worries in library servis 023.57
Worship
family 249
of animals idolatry 290
public 264
state control 351.857
Worsteds manufacture 677
[1] Worth co. Ia. history 977.723
[1] Mo. " 977.814
Woulfe bottles chem. 542.231
Wounded, hospitals for 362.1
architec. 725.51
Wounds
reparation of surgery 617.14
zoology 591.179
Wrecking and life-saving 656
Wrens birds 598.8
Wrestling 796
[1] Wright co. Ia. history 977.7274
[1] Mo. " 977.8825
Wringers laundry mach. 648.3
Wrisberg's
nerv anatomy 611.8339
pars intermedia anat. 611.83175
Wrist " 611.975
bones " 611.7177
joint " 611.7274
Writing 652
books 372.51
elementary education 372.51
for the press lit. meth. 029.6
inks chemic technology 667.4
machine 652
materials 652
of history 907
shorthand 653
telegraf elec. eng. 621.3826
Writs law 347.93
Written examinations 371.27
Wrongs law of torts 347.5
Wrought iron bldgs arch. 721.92

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Wuch language 491.41
[1]Wurtemburg, Ger. history 943.47
Wurtemberg swine 636.431
[1]Wyandot co. O. hist. 977.126
Wyandotte fowls 636.583
Wyatt, T: Eng. poetry 821.27
Wycherly, W: drama 822.44
Wyoming
[1] co. N. Y. history 974.793
[1] Pa. " 974.835
[1] W. Va. " 975.445
state admission U.S.hist. 973.86
[1] history 978.7
mil. hist. civ. war. 973.7487
Span. " 973.89487
valley massacre
Amer. revol. 973.3344
Penn. hist. 974.8

X rays mesology 612.0144811
Xenocrates anc. philos. 184.3
Xenon inorganic chem. 546.295
Xenophanes Gk philos. 182.3
Xenophon Gk literature 888.3
Ximenes Catalan misc. 849.9814
Xylofone musical instrum. 789.6
Xylografy 761
Xvrideæ botany 584.36

Y connections elec. eng. 621.3191333
ligament anatomy 611.7282
Yacht clubs architecture 725.87
Yachting 797
suits dom. econ. 646.47
Yachts
engin driven shipbilding 623.824
sailing " 623.8225
Yak domestic animals 636.2971
Yale college 378.746
Yam 635.23
[1]Yamaska co. Que. hist. 971.454
Yañez Ruy Span. poetry 861.15
Yaraw palm 633.584
Yard engins steam eng. 621.13263
Yards, railway engin'g 625.18
stock architecture 725.27
[1]Yarmouth co. N. S. hist. 971.631
Yarns manufacture 677
[1]Yates co. N. Y. history 974.782
Year books statistics 310
see subject
college 378.14
solar chronology 529.2
Yeast adulterations 614.315
botany 589.91
chemic technology 664.6
domestic economy 641.6
Yellow
fever diseases 616.928
protectiv inocula. 614.476
public helth 614.541
journalism 070.16
journals lib. censorship 024.58
exclusion 025.217
milo cereals 633.178
vegetable dye plants 633.861
Yellowstone Park descrip. 917.87
[1] history 978.7
[1]Yemen, Arabia " 953.3
Yiddish dialects 492.4
literature 892.4
Yield stock farming 636.0814
Y. M. C. A.
bildings 267.32
architecture 726.9
committees, special 267.35
standing 267.334
conferences 267.349
departments 267.35
extension 267.31
field and limits 267.31
general secretary 267.341

Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index

Y. M. C. A.
Great war 1914–19 940.4773
history 267.39
institutes 267.348
librarian 267.342
local work by dep'ts 267.35
managers 267.333
membership 267.335
objects 267.31
officers, salaried 267.34
training 267.345
unsalaried 267.333
organization 267.33
periodicals 267.39
physical director 267.343
reports 267.39
training offisers 267.345
work with special classes 267.36
Yokohama fowls 636.5857
[1]Yolo co. Cal. history 979.451
[1]Yonne, France " 944.41
[1]York co. Me. " 974.19
[1] N. B. " 971.551
[1] Ont. " 971.354
[1] Pa. " 974.841
house of Eng. hist. 942.04
[1]Yorkshire, England " 942.74
Yorkshire coach horse 636.1422
swine, large 636.4241
medium 636.4271
small 636.4222
Yorktown, Va.
siege Amer. revol. 973.3375
U. S. civil war 973.7327
Yosemite, Cal. descrip. 917.9447
[1] history 979.447
Young, E: Eng. poetry 821.55
Young
animals, propor'n zoot. 636.08236
care " 636.08337
feeding " 636.0841
childstudy 136.7
counsels to ethics 173.6
education of elem. educ. 372
men, advice to
business ethics 174
Men's Christian ass'n 267.3
men's Christian unions 267.233
Hebrew ass'n Gt.war 940.4776
people's religious societies 267.6
societies sociology 369.4
soc. of Chr. endevor 267.613
reading of 028.5
Young
women, advice to
social ethics 177
Women's Christian ass'n 267.5
[1]Youngstown, O. history 977.1391
Yriarte, T. de Span. poetry 861.45
Ytterbium inorg. chem. 546.652
Yttrium " " 546.61
[1]Yuba co. Cal. history 979.435
Yucatan, Mex. architec. 722.9
[1] history 972.6
travels 917.26
[1]Yukon, Can. history 971.21
Y. W. C. A. Great war 940.4774
religion 267.5

[1]Zacatecas, Mex. history 972.4
Zambezi travels 916.79
Zanella, G. Ital. poetry 851.82
[1]Zanesville, O. history 977.1911
Zanotti, F. M. Ital. essays 854.58
[1]Zanzibar, Africa history 967.8
Zapupe fibers 633.5776
Zaraibi goat 636.39862
Zaupel sheep 636.3333
[1]Zealand, province of hist. 949.2
Zealand sheep agric. 636.3314
Zebra " 636.184
Zebroid " 636.185
Zebrul " 636.185
Zebu " 636.291
Zechariah Bible 224.98
Zend
[5] Avesta Persian litera. 891.52
religion 295
[4] **language** **491.52**
Zenith telescope astron. 522.43
Zenithal projections geod. 526.84
Zeno, Apostolo Ital. dram. 852.55
early Greek philosofers 182.3
stoic philosofer 188.1
Zephaniah Bible 224.96
Zesen, P. von Ger. poetry 831.56
Zigzags mil. engin'g 623.24
Zinc
inorganic chemistry 546.47
led accumulators eng. 621.35557
metallurgy 669.5
ores economic geology 553.45
oxid of therapeutics 615.776
roofs bilding 695.4
Zincografy 767
Zincs steam engineering 621.18479
Zinn's zone anat. 611.8442
Zirconium inorg. chem. 546.83
Zit kwa 635.618
Zither music 787.8
Zoantharia radiates **593.63**
Zodiac astronomy 523.29
Zodiacal light " 523.59
Zones agriculture **631.091**
Zoologic gardens 590.7
architec. 727.5
Zoology **590**
agricultural 630.29
Zoophytes **593**
Zoosporeæ botany 589.67
Zootechny **636.08**
Zorilla y Moral, José 861.53
Zoroaster Parseeism 295
Zouaves military science 356.16
Zoysicae forage crops 633.281
Zschokke, J; H; D. Ger.fic. 833.71
[1]Zululand history 968.3
Zumbini, B. Ital. essays 854.87
Zuñis indians 970.3
Zunu sheep 636.386
[1]Zurich history 949.4
travels 914.94
Zwinglian Protestant sects 284.2
Zygæna fishes 597.3
Zygomatic bone 611.7163
muscle 611.7326
Zygomycetes fungi 589.28
Zygophylleæ botany 583.221
Zygosporeae algae **589.6**
lichens **589.27**
Zyphoid bone 611.713

INDEX TABLES

Table 1—Geografic Divisions

The fcllowing subjects may all be divided geograficly by adding the geografic numbers: i. e. 4 Europe; 5 Asia; 6 Africa; 7 North America; 8 South America; 9 Oceanica. These can be farther subdivided as minutely as wisht, like the history, 910–999, which see for full table; e. g. 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geografic numbers are formd by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixt to the number given in the table below; e. g. Atlases are numberd in the table below 912; in the historical tables France is numberd 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. state, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. state.

A number of unimportant topics, e. g. minor religious sects, which may be divided geograficly, are omitted from this table.

373.	Academies, private
379.	" public
354.	Administration (except U. S.)
923.5	" biografy
923.5	Admirals' lives
630.9	Agriculture, history of
283.	American P.E. church
922.3	" " " biografy
911.	Ancient geografy
283.	Anglican church
922.3	" " biografy
591.9	Animals, geografic distribution
328.	Annals, legislativ
913.	Antiquities, archeology
922.3	Archbishops' lives, Anglican
922.2	" " Roman catholic
720.9	Architecture, history of
923.5	Army biografy
709.	Art, history of
362.9	Asylums
027.2	Atheneum libraries
912.	Atlases
013.9	Authors, foren
923.3	Bankers' lives
286.1-4	Baptist sects *see* Classification tables
922.6	Baptist lives
013.9	Bibliografy of foren authors
016.9	" of history
015.	" special countries
022.33	Bildings, library
920.0	Biografy of countries, collectiv; also religious biografy 922.2 to 922.8, and biografy of sociology 923.1 to 923.8
922.3	Bishops' lives, Anglican and P. E.
922.2	" " Roman catholic
655.4	Bookselling, history of
581.9	Botany, geografic
284.2	Calvinist church
922.4	" lives
923.3	Capitalists' lives
922.2	Cardinals' "
282.	Catholic church
922.2	" " biografy
284.8	" Old, church
361.9	Charitable associations
136.79	Childhood
283.	Church, Episcopal
922.3	" " biografy
27	" history
027.3	Circulating libraries
027.4	City libraries, public
923.5	Civil servis biografy
027.2	Club libraries
367.9	Clubs, social
332.49	Coinage, history of
027.7	College libraries
378.	Colleges
325.	Colonies
923.8	Commerce, biografy of
285.8	Congregational church
922.5	" " biografy
342.	Constitutional law
922.4	Continental Protestants' lives
641.59	Cookery
655.6	Copyright
940.34-9	Countries in Great war
343.	Criminal law
923.4	Criminals' lives
614.12	Deths and deth-rates
91	Description, geografic
91	Directories
591.9	Distribution of animals, geog.
549.9	" " minerals "
581.9	" " plants "
572.9	" " races "
284.1	Dutch reformd church (except America)
285.7	Dutch reformd church (in America)
922.4	Dutch reformd church biografy
27	Ecclesiastical history

330.9 Economics, history
378. Education, college
372.9 " elementary
370.9 " history of
373. " intermediate (private)
376.9 " of women
373. " private academies
379. " public school
923.7 Educators' lives
372.9 Elementary education
325.2 Emigrants
923.1 Emperors' lives
027.4 Endowd libraries
373. " schools
628.09 Engineering, sanitary
283. Episcopal church
922.3 " " biografy
287.6 " Methodist, church
922.7 " " " biog.
572.9 Ethnology
027.1 Family libraries
376.9 Female education
336. Finance
923.3 Financiers' lives
349. Foren law
327. " relations
354. " states, administration
560.9 Fossils, geografic distribution
027.9 Free news rooms
027.4 " public libraries
289.6 Friends or quakers
922.8 " " " biografy
027.0 General libraries, hist. repts. etc.
581.9 Geografic botany
591.9 " dist. of animals
560.9 " " " fossils
549.9 " " " minerals
572.9 " " " races
91 Geografy, description
911. " historical
912. " maps
355.47 " military
55 Geology
724.3 Gothic revival, architecture
724.4 " Victorian "
354. Government admin. except (U. S.)
027.5 " libraries
352.0 " local
923.2 Governors lives
724.2 Grecian revival, architecture
614.09 Helth, public
911. Historical geografy
016.9 History bibliografy of
362.9 Hospitals
940.476 " Great war
284.5 Huguenots
922.4 Huguenots biografy
613.09 Hygiene
325. Immigration
338.9 Industrial legislation
607. Institutes of technology
370.72 " teachers
368.9 Insurance
373. Intermediate education
923.4 Judges' lives
372.209 Kindergarten history
923.1 Kings' lives
331.819 Laboring classes
333.09 Landholding
323.1 Languages, internal relations
923.4 Law biografy
342. " constitutional
343. " criminal
349. " foren
323.6 Laws, citizenship
379.14 " school
338.9 Legislation, industrial
021.89 " library
328. Legislativ bodies and annals
923.2 Legislators' lives
027.0 Libraries, general, histories, reports, etc.
352.0 Local government
284.1 Lutheran church
922.4 " " biografy
371.429 Manual training
912. Maps
940.475 Medical dpt, Great war
370.71 Meetings, teachers
940.465 Memorials of Great war
923.8 Merchants' lives
287.6 Methodist episcopal
922.7 " biografy
553.70 Mineral waters
549.9 Minerals, geografic distribution
332.49 Mints, history
780.9 Music, history of
015. National bibliografy
920.0 " biografy
323.1 Nationalities
923.5 Naval biografy
724.6 Néo-Grec architecture
027.9 News rooms, free
923.2 Nobles' lives
560.9 Paleontology
027.8 Parish libraries
328. Parliamentary bodies
329.9 Parties, political (except U. S.)
923.6 Philanthropists' lives
912. Plans of cities, etc.
581.9 Plants, geografic distribution
363.9 Political associations

923.3 Political economy, biografy
330.9 " " history
329.9 " parties (except U. S.)
923.2 " science, biografy
320.9 " " history of
923.2 Politicians' lives
312. Population, statistics of
373. Preparatory schools
285.1 Presbyterian church in America
285.2 " " " Gt Britain
922.5 " " biografy
923.1 Presidents' lives
655.1 Printing, history of
365.9 Prisons
027.1 Private libraries
373. " schools
027.2 Proprietary libraries
283. Protestant episcopal church
922.3 " " " biog.
922.4 Protestants, continental, lives
614.09 Public helth
027.4 Public libraries
379. " school system
015. Publishers' lists
655.4 Publishing, history of
289.6 Quakers
922.8 " lives
724.5 Queen Anne architecture
923.1 Queens' lives
323.1 Races, internal relations
572.9 " of men
923.8 Railroad officials' lives
027.4 Rate supported libraries
027.9 Reading rooms, free
364.9 Reformatory institutions
284.1 Reformd church
285.7 " (Dutch) church in Amer.
922.4 " " " biografy
327. Relations, foren
27 Religious history
724.1 Renaissance architecture
282. Roman catholic church
922.2 " " " biografy
724.8 Romanesque revival, architecture
923.1 Rulers, chief, lives
628.09 Sanitary engineering, history, etc.
284.7 Scandinavian church
922.4 " " biografy
027.8 School libraries
923.7 " offisers' biografy
370.73 Schools, normal
374.4 " correspondence
373. " private
379. " public, system
508. Scientific travels
366.9 Secret societies
373. Seminaries, private
923.5 Servis, civil, biografy
286.3 Seventh day baptist
922.6 " " " biografy
289.8 Shakers
922.8 " biografy
653.09 Shorthand, history
326.9 Slavery, "
367.9 Social clubs
335.9 Socialist communities
267.2 Societies, religious, of men
366.9 " secret
027.2 Society libraries
923.5 Soldiers' lives
379. State education
027.5 " libraries
923.2 Statesmen's lives
31 Statistics
312. " of population
027.3 Subscription libraries
324. Suffrage
027.8 Sunday school libraries
289.4 Swedenborgians
922.8 " biografy
284.7 Swedish church
922.4 " " biografy
724.7 Swiss architecture
923.7 Teachers' lives
607. Technical schools
207. Theologic schools
724.7 Timber architecture
027.4 Town libraries, public
91 Travel, description
508. " scientific
341.2 Treaties, texts and history
724.4 Tudor architecture
288. Unitarian church
922.8 " biografy
289.1 Universalist church
922.8 " " biografy
378. Universities, history, reports, etc.
027.7 University libraries
724.4 Victorian Gothic architecture
371.429 Vocational training
324. Voting
331.29 Wages
922.4 Waldenses biografy
553.70 Waters, mineral
940.4779 Welfare work, Gt war, by country
940.4778 " " " in "
376.9 Woman's education
267.432 Women's Christian associations
267.39 Y. M. C. A.
267.59 Y. W. C. A.
591.9 Zoology, geografic

Table 2 — Form Divisions

The form distinctions 01, Philosofy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygrafy, Collectiv works; 09, History, can be used wherever needed if these numbers are not alredy employd with other significations. They have been printed in the full tables only where they seemd specially needed.

The following is an alfabetic list of these divisions, and the figures prefixt should be *added* to the number of the subject to be subdivided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06	Academies
06	Acts of societies
04	Addresses
06	Associations
02	Charts
08	Collected works
08	Collections
02	Compends
03	Concordances
03	Cyclopedias
03	Dictionaries
02	Digests
04	Discourses
04	Disputations
07	Education
03	Encyclopedias
04	Essays
06	Exhibitions
08	Extracts
09	History
04	Lectures
04	Letters
03	Lexicons
08	Libraries, collections, series
05	Magazines
02	Manuals
08	Maxims
01	Methods
08	Miscellanies
07	Museums
02	Outlines
04	Papers
05	Periodicals
01	Philosofy
08	Polygrafy
06	Reports of societies
05	Reviews
07	Schools
07	Seminaries
06	Societies
07	Study
02	Systems
07	Teaching
01	Theories
04	Tracts
07	Training schools
06	Transactions
08	Treatises
01	Utility

Table 3 — Languages

The table below includes all languages mentiond in the classification, except those in 494—499, not yet subdivided.

Any language in this table may be subdivided like 420, English.

Any philologic topic in the index may be transferd to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to subdivide the language is to prefix the language figures as given in this table to the philologic numbers given in Table 4.

All three methods give the same result.

491.58	Afghani
492.8	Amharic
429.	Anglo Saxon
492.7	Arabic
492.1	Aramaic
491.54	Armenian
491.68	Armorican
492.19	Assyrian
491.52	Avestan, Zend
492.19	Babylonian
491.52	Bactrian, Old
491 68	Bas Breton
491.69	Basque
491.44	Bengali
491.86	Bohemian
491.68	Breton, Bas
491.81	Bulgarian
492.6	Carthaginian
449.9	Catalan
492.2	Chaldee
491.81	Church Slavonic
493.2	Coptic
491.67	Cornish
491.83	Croatian

492.19	Cuneiform
491.65	Cymric group
491.66	" or Welsh
439.8	Danish
439.4	Deutsch, Platt
439.3	Dutch
493.1	Egyptian, Old
42	English
427.01	" Old
491.61	Erse, Gadhelic group
491.63	" Gaelic
492.8	Ethiopic
477.5	Etruscan
493.6	Faroese
439.3	Flemish
44	French
447.01	" Old
439.2	Frisian
491.61	Gadhelic group
491.63	Gaelic or Scotch
43	German
437.02	" Middle High
437.01	" Old High
439.9	Gothic
48	Greek
489.	" Modern
491.47	Gujerati
492.4	Hebrew
492.9	Himyaritic
491.43	Hindi
491.1	Hindu languages
491.43	Hindustani
491.53	Huzwaresh
439.6	Icelandic
491.1	Indic group
491.62	Irish
45	Italian
492.4	Jewish
491.83	Kroatian
491.57	Kurdish
47	Latin
479.	" Medieval
491.93	Lettish
491.92	Lithuanian
491.93	Livonian
439.3	Low Dutch
479.	" Latin
491.64	Manx
491.46	Marathi
479.	Medieval Latin
437.02	Middle High German
489.	Modern Greek
491.55	" Persian
491.87	Moravian
492.19	Nineveh cuneiform
439.6	Norse, Old
439.8	Norwegian
491.52	Old Bactrian
493.1	" Egyptian
427.01	" English
447.01	" French
437.01	" High German
439.6	" Norse
491.51	" Persian
491.91	" Prussian
439.2	" Saxon
491.45	Orissa
491.56	Ossetic
491.3	Pali
491.42	Panjabi
491.53	Pehlevi
491.55	Persian, Modern
491.51	" Old
492.3	Peshito
492.6	Phenician
439.4	Platt Deutsch
491.89	Polabian
491.85	Polish
469.	Portugese
491.2	Prakrit
449.	Provençal
491.91	Prussian, Old
491.58	Pushtu
459.9	Rhaeto-Romansch
489.	Romaic
459.	Rumanian
459.9	Rumansh
491.7	Russian
491.79	Ruthenian
492.5	Samaritan
491.2	Sanskrit
429.	Saxon, Anglo-
439.2	" Old
439.5	Scandinavian languages
491.63	Scotch or Gaelic
491.82	Serbian
491.41	Sindi
491.48	Singhalese
491.81	Slavonic, Church
491.87	Slovakian
491.84	Slovenian
491.88	Sorbian
46	Spanish
439.7	Swedish
492.3	Syriac
491.45	Uriya
459.	Wallachian
491.66	Welsh
491.52	Zend

Table 4.—Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e.g.:

English orthography		421
Provençal	"	449.1
Arabic	"	492.71
Gaelic	"	491.631
Syntax of	English verbs	425.8
"	Modern Greek verbs	489.58
"	Danish "	439.858
"	Armenian "	491.5458
Inflection of	English nouns	425.15
"	Anglo-Saxon nouns	429.515
"	Hebrew "	492.4515
"	Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	German.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

Biscoe time and Olin biografy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C–2000 A D. Each number consists of a single initial letter followd by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book publisht in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followd by 3 figures; thus a book issued in 1472 would be numberd C472.

Table of Biscoe numbers

A	B. C.	J	1830–1839	S	1920–1929
B	A. D. 1–999	K	1840–1849	T	1930–1939
C	1000–1499	L	1850–1859	U	1940–1949
D	1500–1599	M	1860–1869	V	1950–1959
E	1600–1699	N	1870–1879	W	1960–1969
F	1700–1799	O	1880–1889	X	1970–1979
G	1800–1809	P	1890–1899	Y	1980–1989
H	1810–1819	Q	1900–1909	Z	1990–1999
I	1820–1829	R	1910–1919		

American books take their numbers from the last copyright date; English and other foren books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book publisht and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Sensenig's *Numbers universalized*, and Well's *Short course in higher algebra* all publisht in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely clast library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in dout, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book publisht somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determin and the number of books in any subject in a single decade small.

Alternativs are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	Correct order A00	A001	Inverted order A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

Olin book numbers The best means of separating collectiv from individual biografy is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followd immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelv biografic compilations before the cutterd individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether clast 920 or 923.1.

See next page for table.

Table of Olin numbers

From *Library journal* 18:144

Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants are followd by figures) are used, mark collected biografy with A followd by a shortend Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be markt As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7

Before 1776 – [illegible]